# TC-KA2ES/KE600S

# SERVICE MANUAL

US Model Canadian Model AEP Model UK Model E Model Australian Model TC-KE600S

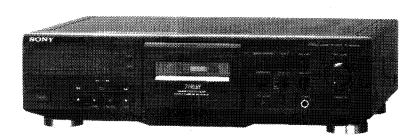


Photo: TC-KE600S

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

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Model Name Using Similar Mechanism	TC-K661S
Tape Transport Mechanism Type	TCM-200V21

#### **SPECIFICATIONS**

#### System

#### **Recording system**

4-track 2-channel stereo

#### Fast winding time (approx.)

90 sec. (with Sony C-60 cassette)

#### High-speed fast-winding time (approx.)

45 sec. (with Sony C-60 cassette)

AC bias

#### Heads

Erasing head × 1 (S&F head) Recording head × 1 (SD head) Playing head × 1 (SD head)

Capstan motor × 1 (DC servo motor) Reel motor × 1 (DC motor) Assist (mechanism drive) motor × 1 (DC motor)

#### Signal-to-noise ratio (at peak level, weighted, and with Dolby NR off)

Type I tape, Sony Type I (NORMAL): 61 dB Type II tape, Sony Type II (HIGH): 59 dB Type IV tape, Sony Type IV (METAL): 57 dB

#### S/N ratio improvement (approximate values)

With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz With Dolby S NR on: 10 dB at 100 Hz, 24 dB at 1 kHz

# MICROFILM

0.4% (with Type I tape, Sony Type I (NORMAL): 160n Wb/m 315 Hz, 3rd H.D.) 1.5% (with Type IV tape, Sony Type IV (METAL): 250n Wb/m 315 Hz, 3rd H.D.)

#### Frequency response (Dolby NR off)

Type I tape, Sony Type I (NORMAL): 15 - 17,000 Hz (±3 dB, IEC) 10 - 19,000 Hz (±6 dB) Type II tape, Sony Type II (HIGH):

15 - 18,000 Hz (±3 dB, IEC) 10 - 20,000 Hz (±6 dB)

Type IV tape, Sony Type IV (METAL):

15 - 21,000 Hz (±3 dB, IEC)

15 - 16,000 Hz (±3 dB, -4dB recording) 10 - 22,000 Hz (±6 dB)

#### **Wow and flutter**

±0.065% W. Peak (IEC) 0.045% W. RMS (NAB) ±0.12% W. Peak (DIN)

- Continued next page -



#### Inputs

#### Line inputs (phono jacks)

Sensitivity: 0.16 V

Input impedance: 47 kilohms

#### **Outputs**

#### Line outputs (phono jacks)

Rated output level: 0.5 V at a load impedance of

47 kilohms

Load impedance: Over 10 kilohms

#### Headphones (stereo phone jack)

Output level: 0.25 mW at a load impedance of

32 ohms

#### General

**Power requirements** 

Where purchased	Power requirements	
US, Canadian model	120 V AC, 60 Hz	
AEP, UK, German, Singapore model	220-230 V AC, 50/60 Hz	
Australian model	240 V AC, 50/60 Hz	
E model	120, 220, or 240 V AC, 50/60 Hz adjustable with the voltage selector	

#### Power consumption

21W

#### Dimensions (approx.) (w/h/d)

 $430 \times 120 \times 310$  mm ( $17 \times 4^{3}/_{4} \times 12^{1}/_{4}$  inches) incl. projecting parts and controls

#### Mass (approx.)

4.6 kg (10 lbs 2 oz)

#### **Supplied accessories**

Audio connecting cords (2)

Design and specifications are subject to change without notice.

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK & OR DOTTED LINE WITH MARK & ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

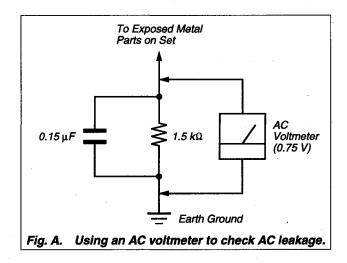
#### **SAFETY CHECK-OUT**

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

#### **LEAKAGE TEST**

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

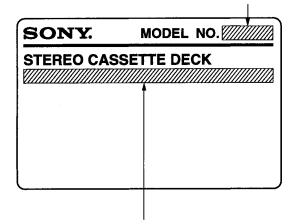


# ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

#### MODEL IDENTIFICATION

US, Canadian model: TC-KA2ES Except US, Canadian model: TC-KE600S

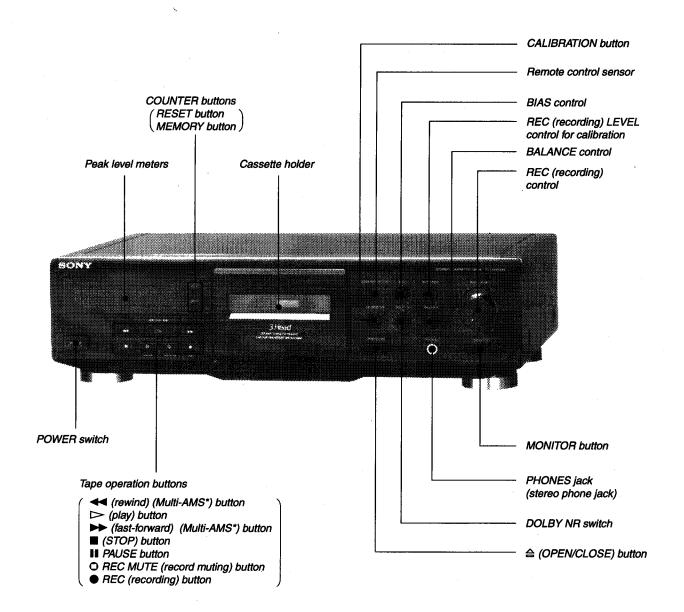


US, Canadian model: AC 120 V 60Hz 21W AEP, UK, German, Singapore model: AC 220 – 230 V  $\sim$ 50/60 Hz 21 W E model: AC 120, 220, 240 V  $\sim$ 50/60 Hz 21 W Australian model: AC 240 V  $\sim$ 50/60 Hz

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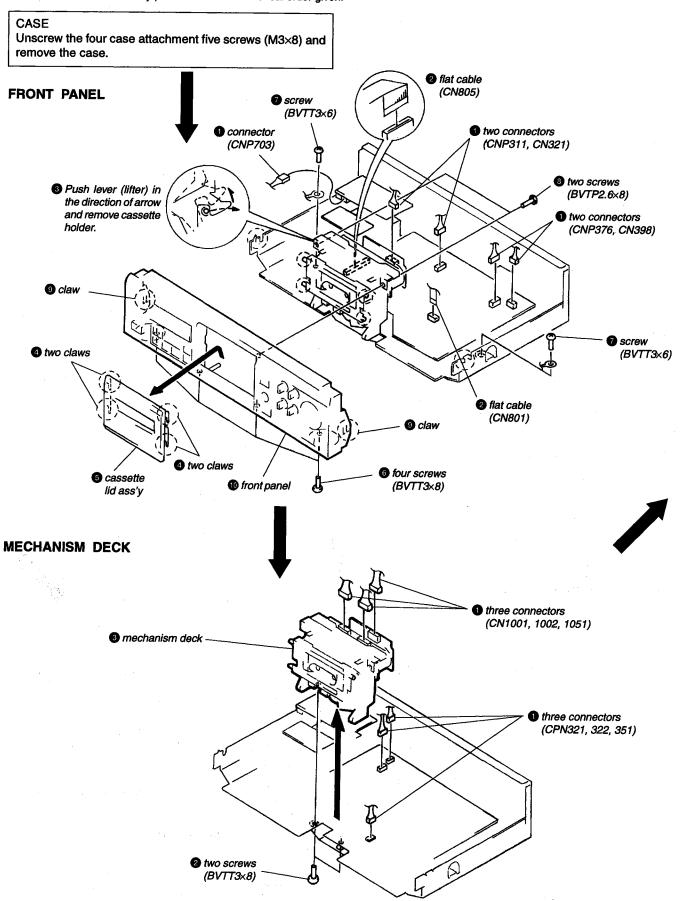
# SECTION 1 GENERAL



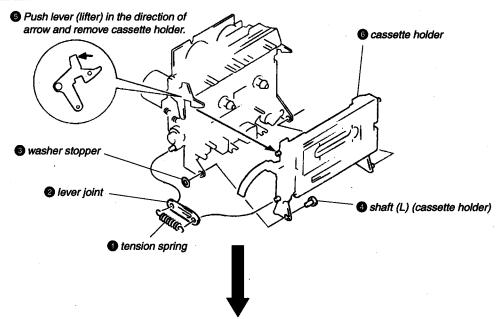
<sup>\*</sup> AMS is an abbreviation for Automatic Music Sensor.

# SECTION 2 DISASSEMBLY

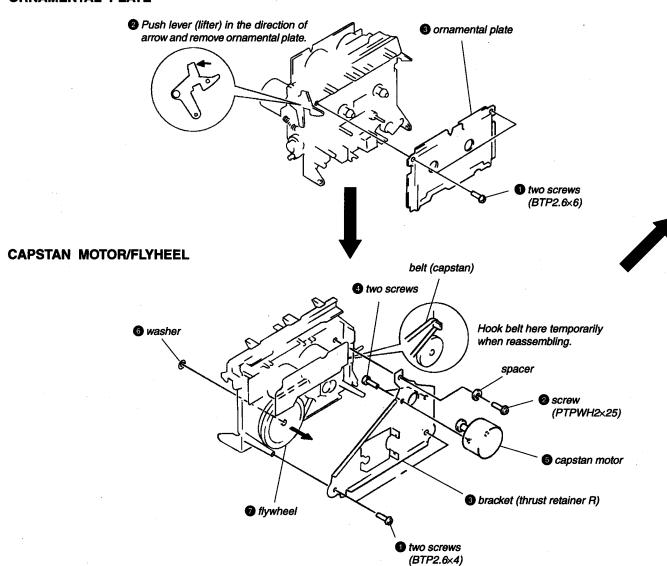
Note: Follow the disassembly procedure in the numerical order given.



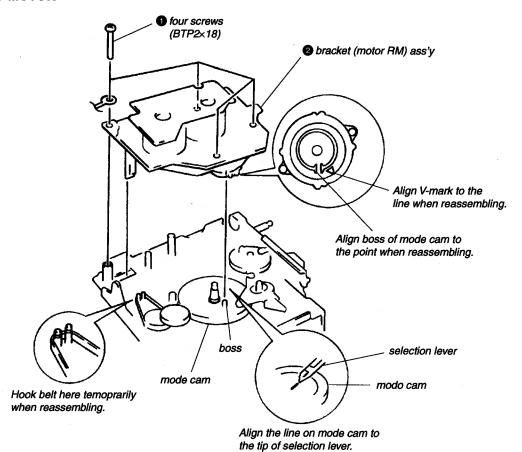
#### **CASSETTE HOLDER**

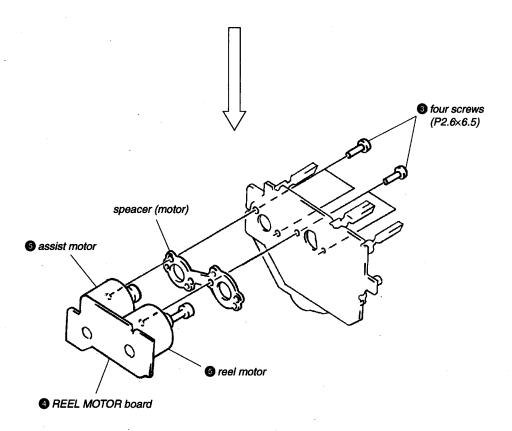


#### **ORNAMENTAL PLATE**



#### **REEL AND ASSIST MOTOR**





### **SECTION 3 MECHANICAL ADJUSTMENTS**

#### **PRECAUTION**

1. Clean the following parts with a denatured alcohol-moistened

record/playback/erase head rubber belts

pinch roller capstan

idlers

- 2. Demagnetize the record/playback head with a head demagne-
  - (Head demagnetizer do not approach for the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustment.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

#### **Torque Measurement**

Mode Torque		Meter reading		
Forward	CQ-102C	30 to 60 g•cm (0.42 to 0.83 oz•inch)		
Forward back tension	CQ-102C	1 to 5 g•cm (0.014 to 0.069 oz•inch)		
FF/REW	CQ-201B	65 to 90 g•cm (0.90 to 1.24 oz•inch)		

#### Record/Playback Head Height/Declination Adjustment **Procedures:**

- 1. Test cassette: CQ-009C
- 2. Insert the mirror cassette and put the unit in record/Playback mode.
  - 1) Height Adjustment:

Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws A, B and O, respectively by the same angle, moving the head so that it remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally; but loosen them if the tape begins to curl on the top side. (outer side.)







(Record/playback head as seen from the side of the erasehead.)

side and 😉.

Curling on the inner Curling on the outer side Tighten screws (A), (B) Loosen screws (A), (B)

and 1

#### 2) Declination Adjustment:

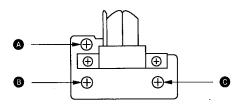
While in the record/playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil in a counterclockwise direction) and make sure there is no curling or shifting (shifting up/shifting down) at the guide of the record/playback head.

Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked.

When there is a shift, tighten screws **B** and **Q** equally and change the declination of the head. If the tape is shifting up, tighten the screws, and if it is shifting down, loosen them.

Repeat the adjustments in steps 1) to 2) and fine adjust the height and the declination.

Adjustment Location: - record/playback head -



# SECTION 4 ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in the service manual. As a rule, adjustments about playback should be performed before those about recording.

The adjustments should be performed before for both L-CH and R-CH.

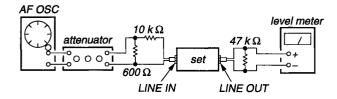
 Switches and controls should be set as follows unless otherwise specified.

> DOLBY NR switch : OFF MPX FILTER switch : OFF MONITOR switch : Tape

· Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

- Record Mode -



0 dB=0.775 V

#### Standard Input Level

input terminal	LINE IN	
source impedance	10 kΩ	
input level	0.5 V (-3.8 dB)	

#### **Standard Output Level**

output terminal	LINE OUT
load impedance	47 kΩ
output level	0.5 V (-3.8 dB)

#### **Test Tape**

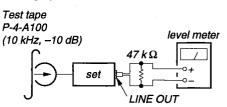
Туре	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
P-4-L300	315 Hz, 0 dB	Playback Level Adjsutment
WS-48B	3 kHz, 0 dB	Tape Speed Check

#### **Test Mode**

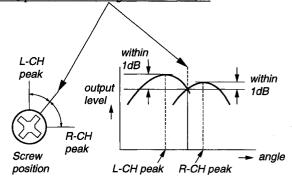
This set will get into test mode by shorting the pins of TP802 (TEST) on MAIN board before turning the power on.

# Record/Playback Head Azimuth Adjustment Procedure:

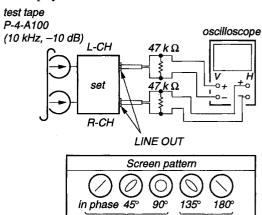
1. Mode: FWD playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw <u>until both</u> of output levels match together within 1 dB.



3. Phase Check Mode: playback

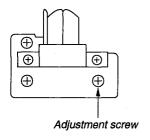


4. After the adjustment, lock the screw with locking compound.

Wrong

Good

Adjustment Location: Record/Playback head



#### **Tape Speed Check**

#### Procedure:

Mode: playback

test tape

WS-48B
(3 kHz, 0 dB)

frequency counter

1. Short the connector TP802 (pins ① and ②). (test mode)

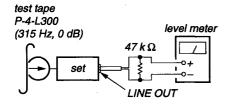
LINE OUT

- 2. Set to FWD playback mode.
- 3. Confirm that the frequency counter reading becomes  $3,000 \pm 30$  Hz.
- 4. After checked, open the connector TP802.

#### **Playback Level Adjustment**

#### Procedure:

Mode: playback



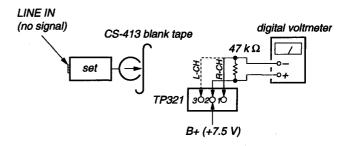
Adjust RV151 (L-CH) and RV251 (R-CH) so that the reading on level meter meets the adjustment limits below.

#### **Adjustment Limits:**

LINE OUT level: -8.2 to -7.2 dB (0.301 to 0.338 V)
Level difference between channels: within 0.5 dB
Check that the LINE OUT level does not change even if Playback and Stop operation is repeated several times.

Adjustment Location: MAIN board

# **Bias Consumption Current Adjustment Procedure:**



- Set RV121 (L-CH) and RV221 (R-CH) to mechanical center and turn the set recording mode.
- 2. Connect digital voltmeter as shown by the following table.
- 3. Adjust the following transformers for the minimum readings on the digital voltmeter.

	Measurement Point	Adjustment Part	Value
L-CH	② and ③, TP321	T121	less than
R-CH	① and ②, TP321	T221	220 mV

Adjustment Location: MAIN board

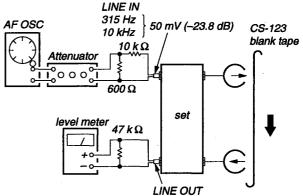
#### **Record Bias Adjustment**

#### Setting:

REC LEVEL control: Standard Record (See page 9.)

#### **Procedure:**

1. Mode: record and playback



2. Adjust RV121 (L-CH) and RV221 (R-CH) so that 10 kHz play-back output is 0±0.3 dB relative to the 315 Hz output.

Adjustment Location: MAIN board

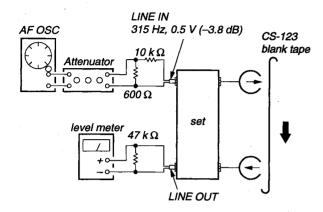
#### **Record Level Adjustment**

Setting:

REC LEVEL control: Standard Record (See page 9.)

#### Procedure:

1. Mode: record and playback



 Adjust RV112 (L-CH) and RV212 (R-CH) so that the reading on level meter meets the adjustment limits below.

Adjustment Limits: -4.3 to -3.3 dB (0.47 to 0.53 V)

Adjustment Location: MAIN board

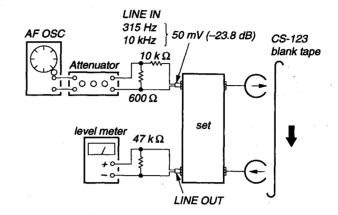
#### Record EQ (IV) Adjustment

Setting:

REC LEVEL control: Standard Record (See page 9.)

#### Procedure:

1. Mode: record and playback



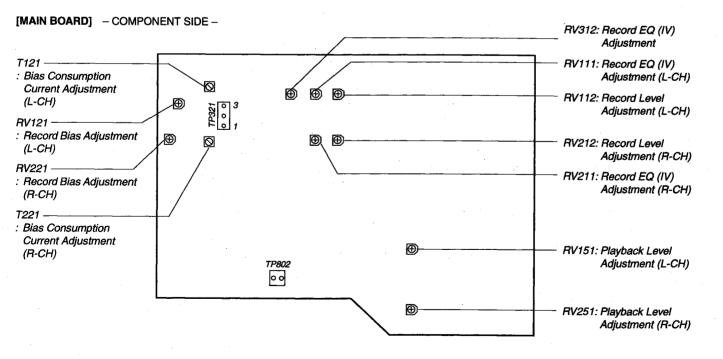
- 2. Adjust RV111 and RV211 so that they become maximum.
- 3. Adjust RV111 (L-CH) and RV211 (R-CH) so that the difference between R-CH and L-CH at 10 kHz is within 1 dB.
- 4. Adjust RV312 so that the R-CH meet the specification.

#### **Adjustment Limits:**

10 kHz level difference against 315 Hz reference. 0±1.0 dB

Adjustment Location: MAIN board

#### **Adjustment Location:**



#### 5-1. IC MAIN BO

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# **SECTION 5 DIAGRAMS**

# 5-1. IC PIN FUNCTION DESCRIPTION MAIN BOARD IC801 M38172M4-171FP (SYSTEM CONTROL)

Pin. No.	Pin Name	I/O	Function
1	T • REEL	I	Take up reel rotation detection input.
2	S • REEL	I	Supply reel rotation detection input.
3	METER L-CH	I	Meter level L-CH input.
4	METER R-CH	I	Meter level R-CH input.
5	AMS • IN	I	AMS signal input terminal.
6	STOP SW	I	Mechanism stop switch input terminal.
7	CLOSE SW		Not used. (H level)
8	OPEN SW	_	Not used. (H level)
9	CAM • SW3		Not used. (H level)
10	CAM • SW2		Not used. (H level)
11	CAM • SW1	_	Not used. (H level)
12	CAM • SW0		Not used. (H level)
13	CAP • M • ON/OFF	0	Capstan motor ON/OFF control. H: ON
14	ASIST M • UP		Not used. (L level)
15	ASIST M • DOWN		Not used. (L level)
16	REEL M • FWD	0	Reel motor FWD control.
17	REEL M • REV	0	Reel motor REW control.
18	EJECT • V (6.5 V)	0	Reel motor eject control.
19	FF/REW • V (4.4 V)	0	Reel motor FF/REW control.
20	PLAY • V (2.5 V)	0	Reel motor play control.
21	TYPE • IV	I	Type IV SW input terminal.
22	HALF SW		Not used. (Open)
23	TYPE • II		Type II SW input terminal.
24	TAB • SW		Not used. (H level)
25	POWER IN	I	Power OFF detection terminal.
26	SIRCS IN	Ī	Sircs signal input terminal.
27	RESET	Ī	System reset terminal.
28	XC IN		Not used. (Open)
29	XC OUT	_	Not used. (Open)
30	X IN	I	System clock oscillator input. (4.0 MHz)
31	X OUT	0	System clock oscillator output. (4.0 MHz)
32	VSS		Ground.
33	VER 200/190	I	Version selection input.
34	POWER OUT	0	Power hold output terminal.
35	MONITOR TAPE/SOURCE	o	Audio mode select terminal.
36	LINE M • ON/OFF	0	Line mute ON/OFF control.
37	OSC H/L	0	OSC frequency H/L selection terminal.
38	CAL ON/OFF	o	Calibration ON/OFF control.
39	REC • ON/OFF	0	REC mute ON/OFF control.
40	BIAS ON/OFF	o	Bias ON/OFF control.
41	DOL • CON (H-C, M, –B, L-OFF)	0	Dolby ON/OFF control.
42	SEG • IV	О	Bias EQ IV control.
43	SEG • DOL C (B/C • S)	О	VFD segment drive (Dolby C).
44	SEG • DOL B (B/C • S)	О	VFD segment drive (Dolby B).
45	SEG PROPER (I, II)	0	VFD segment drive (Type I, II).

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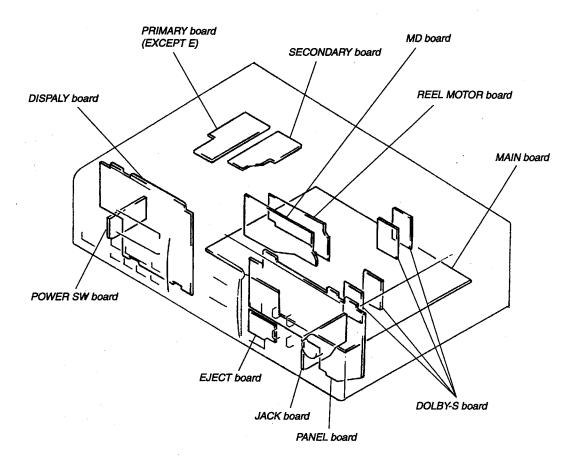
vel it (R-CH) 2 (IV) it (R-CH)

\_evel nt (L-CH)

Level it (R-CH)

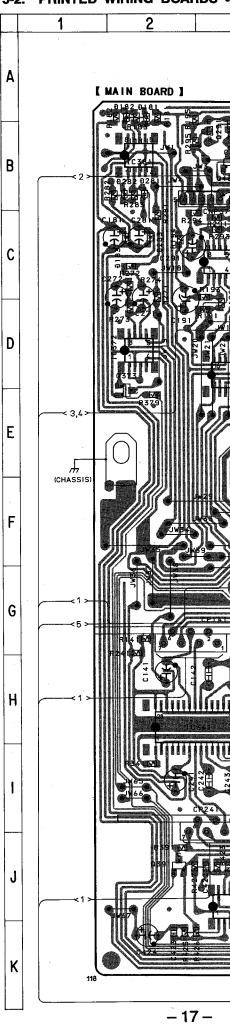
Pin. No.	Pin Name	1/0	Function
46	SEG • FIL ON/OFF	0	VFD segment drive (Filter).
47	SEG • DOL S ON/OFF	0	VFD segment drive (Dolby S).
48	-		Not used. (Open)
49	SEG01	0	VFD segment drive.
50	SEG02	0	VFD segment drive.
51	SEG06	0	VFD segment drive.
52	SEG07	0	VFD segment drive.
53	SEG03	0	VFD segment drive.
54	SEG05	0	VFD segment drive.
55	SEG04	0	VFD segment drive.
56	SEG08	. 0	VFD segment drive.
57	SEG16	О	VFD segment drive.
58	SEG09	0	VFD segment drive.
59	SEG10	0	VFD segment drive.
60	SEG14	0	VFD segment drive.
61	SEG15	0	VFD segment drive.
62	SEG11	0	VFD segment drive.
63	SEG13	0	VFD segment drive.
64	SEG12	0	VFD segment drive.
65	SEG • CAL	0	VFD segment drive. (calibration)
- 66	SEG • I	0	Bias EQ I control.
67	SEG • II	0	Bias EQ II control.
68	G5-HYOUJI	0	VFD colum display.
69	G4-SEC	0	VFD colum SEC.
70	G3-MIN	0	VFD colum MIN.
71	G2-RCH	0	VFD colum R-CH.
72	G1-LCH	0	VFD colum L-CH.
73	VCC	-	Power supply. (+5 V)
74	VEE	~	Power supply. (-24 V)
75	AVSS		Analog for power supply. (Ground)
76	VREF	~	A/D reference voltage. (+5 V)
77	KEY2	Ī	Key input terminal.
78	KEY1	I	Key input terminal.
79	HALF SW	I	Half pawl switch input terminal.
80	DOLBY SW	I	Dolby switch input terminal.

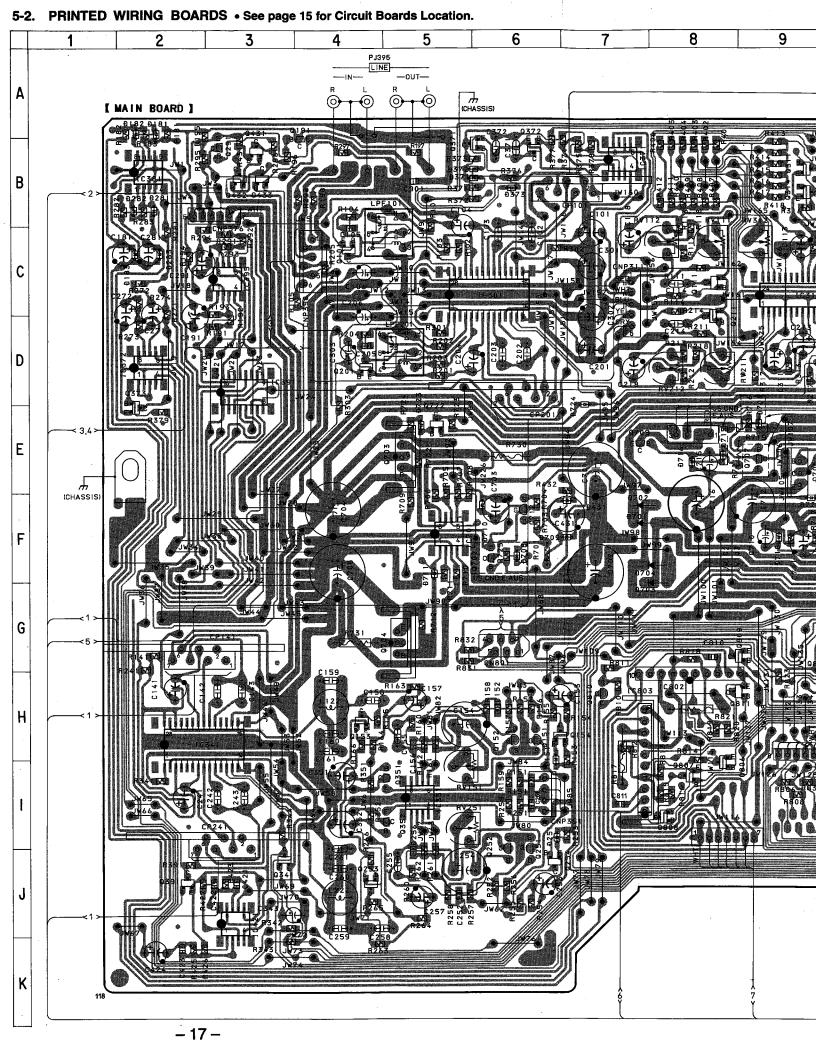
#### • Circuit Boards Location

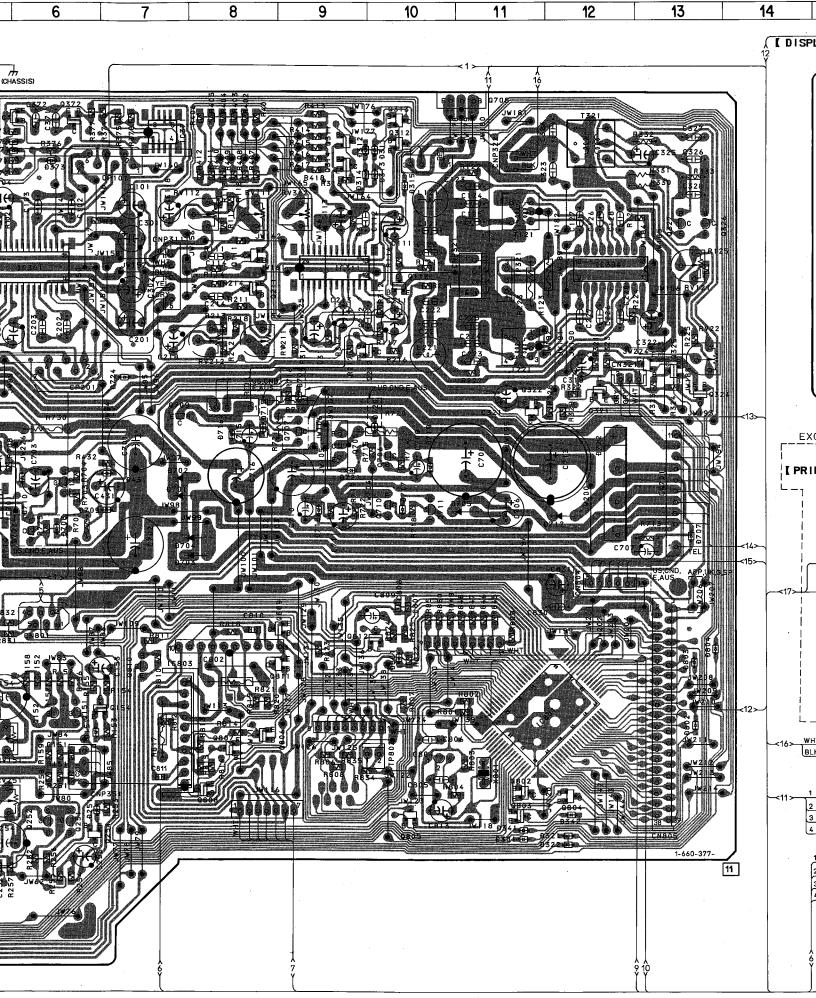


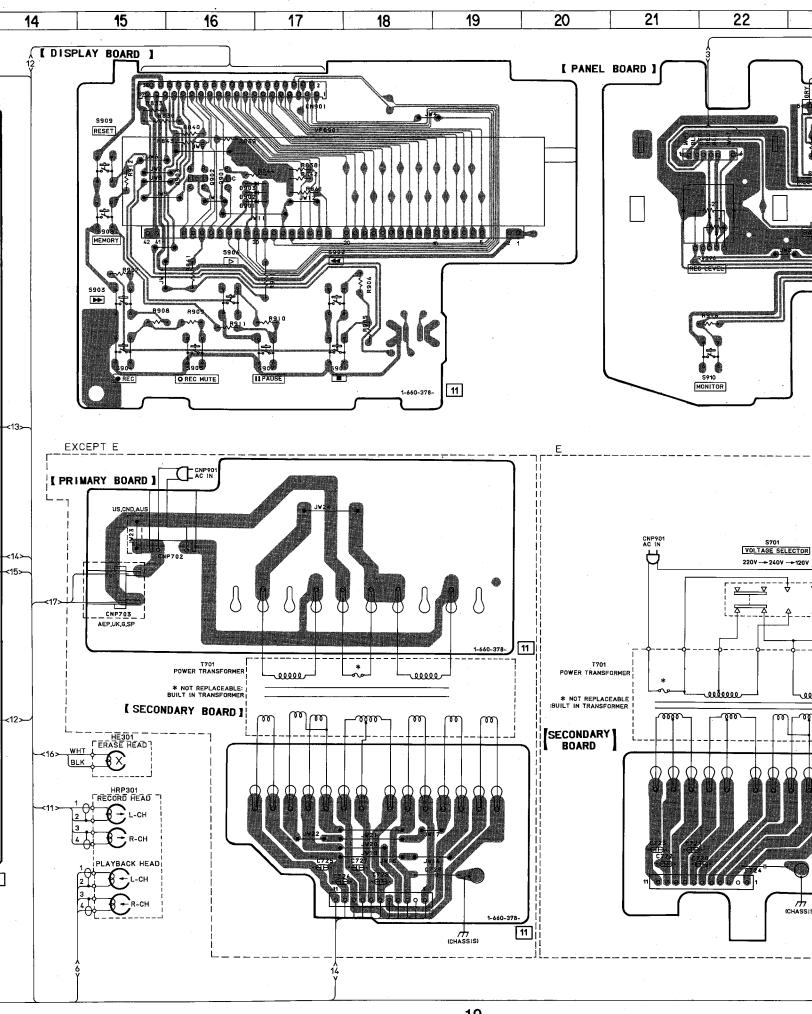
### • Semiconductor Location

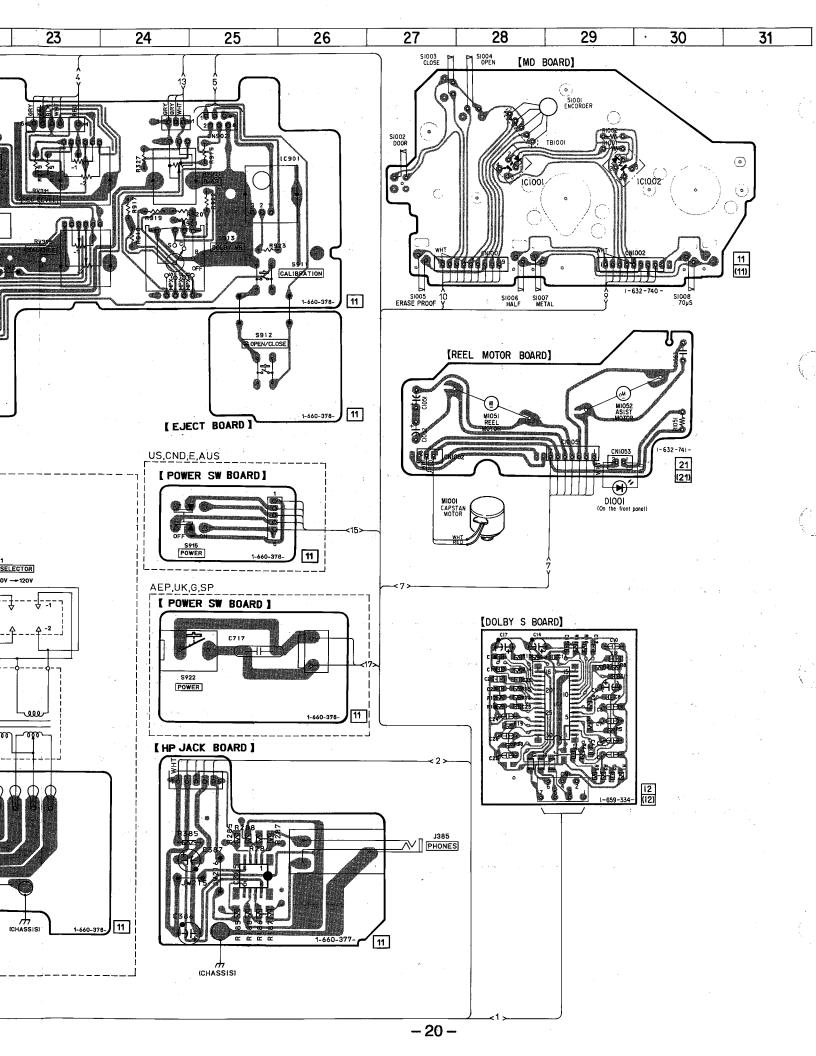
D151 D181 D182 D183 D251 D281 D282 D283 D301 D311 D312 D313 D314 D315 D321 D322 D341 D342 D371 D372 D373 D431 D701	H-6 A-2 A-2 C-2 I-6 B-2 C-2 J-11 B-10 B-9 B-10 B-10 J-12 J-12 J-12 F-7 F-7 F-7	C803 IC804 IC901 IC1001 IC1002 Q101 Q111 Q112 Q151 Q152 Q153 Q154 Q191 Q201 Q211 Q251 Q251 Q253 Q254 Q291 Q311	H-7 I-10 B-25 B-28 B-29 C-4 C-8 C-10 H-6 H-6 A-4 D-8 I-6 J-6 J-6 B-3
D182 D183 D251 D281 D282 D283 D301 D311 D312 D313 D314 D315 D321 D322 D341 D342 D371 D372 D373 D431	A-2 C-2 I-6 B-2 B-2 C-2 J-11 B-10 B-9 B-10 J-12 J-12 J-12 J-12 B-5 B-5 B-6 F-7 F-7 F-7	C901 IC1001 IC1002 Q101 Q111 Q111 Q151 Q152 Q153 Q154 Q191 Q201 Q211 Q251 Q251 Q252 Q253 Q254 Q291 Q311	B-25 B-28 B-29 C-4 C-8 C-10 H-6 H-6 H-6 A-4 D-9 I-6 J-4 J-6 B-3
D183 D251 D281 D282 D283 D301 D311 D312 D313 D314 D315 D321 D322 D341 D342 D371 D372 D373 D431	C-2 I-6 B-2 B-2 C-2 J-11 B-10 B-9 B-10 J-12 J-12 J-12 J-12 B-5 B-5 B-6 F-7 F-7 F-7 G-7	0101 0101 0101 0111 0112 0151 0152 0153 0154 0191 0201 0211 0212 0251 0252 0253 0254 0291 0311	B-28 B-29 C-4 C-8 C-10 H-6 H-6 H-4 D-8 D-9 I-6 I-6 J-4 B-3
D251 D281 D282 D283 D301 D311 D312 D313 D314 D315 D321 D322 D341 D342 D371 D372 D373 D431	I-6 B-2 B-2 C-2 J-11 B-10 B-9 B-10 J-12 J-12 J-12 J-12 B-5 B-5 B-6 F-7 F-7 F-7 G-7	Q101 Q111 Q112 Q151 Q152 Q153 Q154 Q191 Q201 Q211 Q251 Q252 Q253 Q254 Q291 Q311	C-4 C-8 C-10 H-6 H-6 H-4 D-4 D-9 I-6 I-6 J-6 B-3
D282 D283 D301 D311 D312 D313 D314 D315 D321 D322 D341 D342 D371 D372 D373 D431	B-2 C-2 J-11 B-10 B-9 B-10 J-12 J-12 J-12 J-12 B-5 B-5 B-6 F-7 F-7 G-7	Q111 Q112 Q151 Q152 Q153 Q154 Q191 Q201 Q211 Q251 Q252 Q253 Q254 Q291 Q311	C-8 C-10 H-6 H-6 H-4 D-4 D-4 C-9 I-6 J-4 J-6 B-3
D283 D301 D311 D312 D313 D314 D315 D321 D322 D341 D342 D371 D372 D373 D431	C-2 J-11 B-10 B-9 B-10 B-9 J-12 J-12 J-12 J-12 J-12 B-5 B-5 B-6 F-7 F-7 G-7	Q111 Q112 Q151 Q152 Q153 Q154 Q191 Q201 Q211 Q251 Q252 Q253 Q254 Q291 Q311	C-8 C-10 H-6 H-6 H-4 D-4 D-4 C-9 I-6 J-4 J-6 B-3
D301 D311 D312 D313 D314 D315 D321 D322 D341 D342 D371 D372 D373 D431	J-11 B-10 B-9 B-10 B-10 J-12 J-12 J-12 J-12 B-5 B-5 B-6 F-7 F-7 G-7	Q112 Q151 Q152 Q153 Q154 Q191 Q201 Q211 Q212 Q251 Q252 Q253 Q254 Q291 Q311	C-10 H-6 H-6 H-4 H-6 A-4 C-8 D-6 I-6 J-4 J-6 B-3
D311 D312 D313 D314 D315 D321 D322 D341 D342 D371 D372 D373 D431	B-10 B-9 B-10 B-9 B-10 J-12 J-12 J-12 B-5 B-5 B-6 F-7 F-7 G-7	Q151 Q152 Q153 Q154 Q191 Q201 Q211 Q212 Q251 Q252 Q253 Q254 Q291 Q311	H-6 H-6 H-4 H-6 A-4 D-4 C-8 D-6 I-6 J-4 J-6 B-3
D312 D313 D314 D315 D321 D322 D341 D342 D371 D372 D373 D431	B-9 B-10 B-9 B-10 J-12 J-12 J-12 J-12 B-5 B-5 B-6 F-7 F-7 G-7	Q152 Q153 Q154 Q191 Q201 Q211 Q212 Q251 Q252 Q253 Q254 Q291 Q311	H-6 H-4 H-6 A-4 D-4 C-8 D-9 I-6 I-6 J-4 J-6 B-3
D314 D315 D321 D322 D341 D342 D371 D372 D373 D431	B-9 B-10 J-12 J-12 J-11 J-12 B-5 B-5 B-6 F-7 F-7 F-7	Q154 Q191 Q201 Q211 Q212 Q251 Q252 Q253 Q254 Q291 Q311	H-6 A-4 D-4 C-8 D-9 I-6 I-6 J-4 J-6 B-3
D315 D321 D322 D341 D342 D371 D372 D373 D431	B-10 J-12 J-12 J-11 J-12 B-5 B-6 F-7 F-7 F-7 G-7	Q191 Q201 Q211 Q212 Q251 Q252 Q253 Q254 Q291 Q311	A-4 D-4 C-8 D-9 I-6 I-6 J-4 J-6 B-3
D321 D322 D341 D342 D371 D372 D373 D431	J-12 J-12 J-11 J-12 B-5 B-6 F-7 F-7 F-7 G-7	Q201 Q211 Q212 Q251 Q252 Q253 Q254 Q291 Q311	D-4 C-8 D-9 I-6 I-6 J-4 J-6 B-3
D322 D341 D342 D371 D372 D373 D431	J-12 J-11 J-12 B-5 B-6 F-7 F-7 F-7	Q211 Q212 Q251 Q252 Q253 Q254 Q291 Q311	C-8 D-9 I-6 I-6 J-4 J-6 B-3
D341 D342 D371 D372 D373 D431	J-11 J-12 B-5 B-5 B-6 F-7 F-7 G-7	Q212 Q251 Q252 Q253 Q254 Q291 Q311	D-9 I-6 I-6 J-4 J-6 B-3
D342 D371 D372 D373 D431	B-5 B-5 B-6 F-7 F-7 G-7	Q252 Q253 Q254 Q291 Q311	I-6 J-4 J-6 B-3
D372 D373 D431	B-5 B-6 F-7 F-7 G-7	Q253 Q254 Q291 Q311	J-4 J-6 B-3
D373 D431	B-6 F-7 F-7 F-7 G-7	Q254 Q291 Q311	J-6 B-3
D431	F-7 F-7 F-7 G-7	Q291 Q311	B-3
	F-7 F-7 G-7	Q311	
D: V:	G-7	0040	B-9
D702		Q312	B-10
D703		Q313	B-10
D704 D705	F-7 F-11	Q314 Q321	B-9 E-12
D705 D706	E-9	Q322	E-11
D707	F-13	Q323	D-13
D708	F-6	Q324	E-13
D709	F-7	Q325	D-13
D710	F-6	Q326 Q327	C-13 C-13
D711 D712	F-5 F-12	Q341	J-3
D715	E-8	Q351	I-5
D716	E-8	Q352	I-5
D717	F-10	Q371	B-5
D718	F-9 E-10	Q372 Q373	B-6 D-2
D719 D720	E-10	Q373	J-2
D721	F-9	Q431	B-3
D722	E-12	Q432	B-3
D723	E-5	Q433	B-3
D724	D-7 H-10	0702	F-6 E-5
D801 D802	H-13	Q703 Q704	G-5
D803	H-13	Q705	E-9
D804	H-13	Q706	E-10
D901	B-16	0707	E-9
D902 D903	B-16 B-16	Q708 Q709	A-11 E-7
D1001	F-29	Q710	F-10
		Q711	F-10
IC1	H-29	Q712	F-6
IC301	C-6	Q722	E-5
IC304 IC311	C-12 C-9	Q802 Q803	I-11   I-11
IC341	H-2	Q804	I-12
IC351	i-5	Q805	J-10
IC371	B-7	Q806	1-8
1C372	D-2	Q807	1-8
IC381 IC385	B-2 J-25	Q808 Q809	I-8 G-8
IC391	D-3	Q810	H-7
IC395	C-3	Q811	H-8
IC421	J-3	Q812	G-10
IC701	F-5	Q901	B-16
1C801 1C802	H-11 H-8	Q902 Q903	B-16 B-16
10032		4,00	

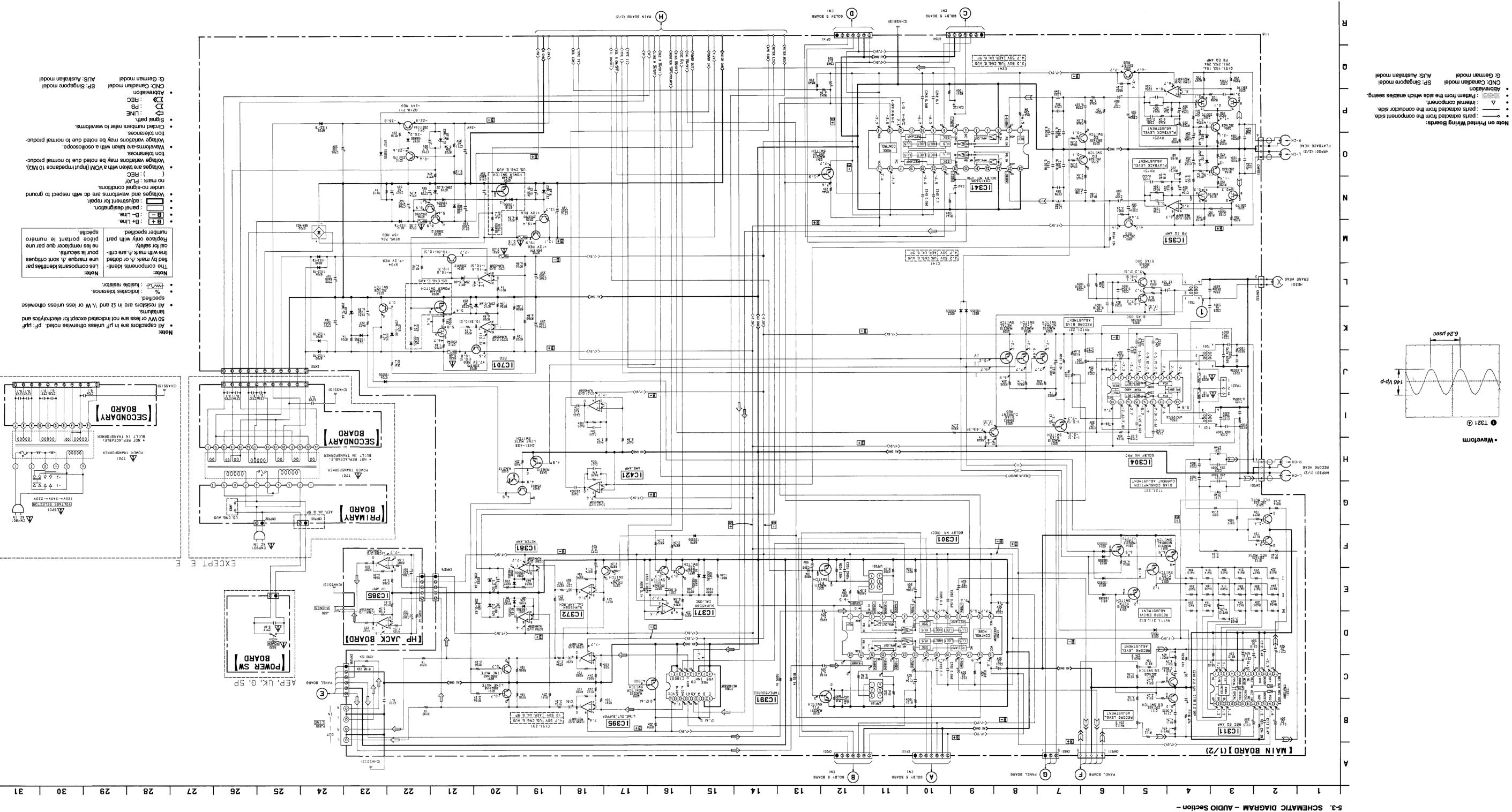








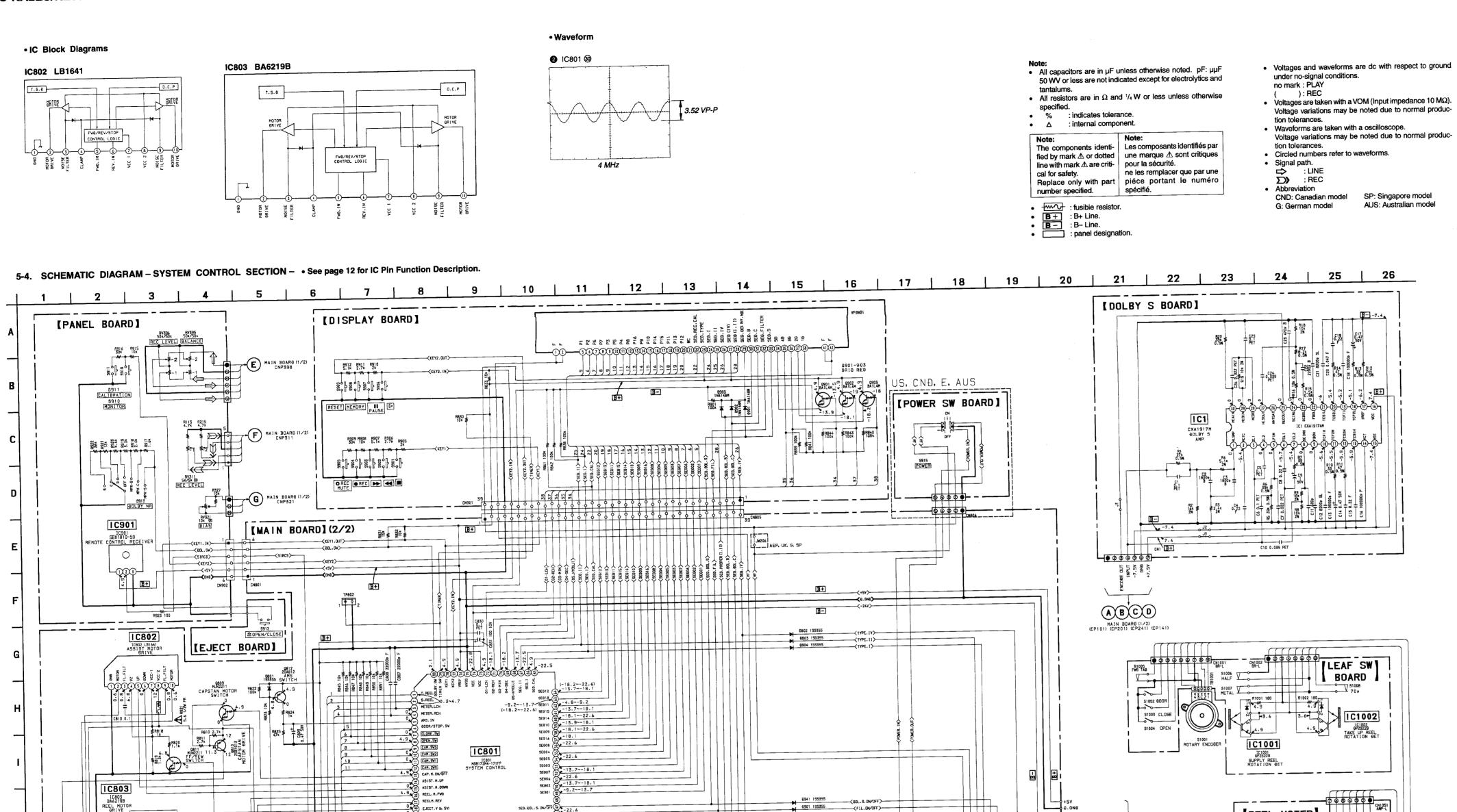




TC-KA2ES/KE600S

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**– 25 –** 



### **SECTION 6 EXPLODED VIEWS**

• Items marked "\*" are not stocked since they -XX and -X mean standardized parts, so they are seldom required for routine service. Some may have some difference from the original one. Color Indication of Appearance Parts Example: delay should be anticipated when ordering these KNOB, BALANCE (WHITE) ... (RED) • The mechanical parts with no reference number in the exploded views are not supplied. • Hardware (# mark) list and accessories and Abbreviation CND: Canadian G: German packing materials are given in the last of the SP: Singapore AUS: Australian electrical parts list.

Larry MOTER!

**- 27 -**

REC M DN/DFF

MONITOR TAPE/SOURCE BIAS ON/OFF

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.
Replace only with part number speci-

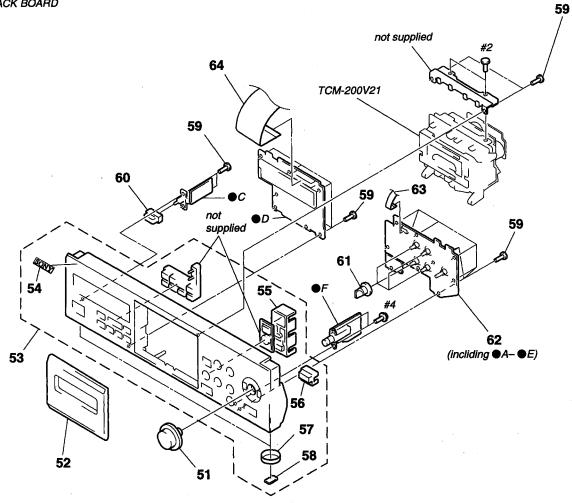
Les composants identifiés par une marque A sont critiques pour la Ne les remplacer que par une pièce portant le neméro spécifié.

(1) CHASSIS SECTION ●A: PRIMARY BOARD ●B: SECONDARY BOARD US, CND AEP, G, SP CNP901 CNP901 AUS CNP901 not supplied #2 4

Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
3-931-432-01	CASE (410726)		* 8	3-933-308-71	PANEL, BACK (US, CND)	
	,		* 8			
			9	4-956-370-12	BAND, PLUG FIXED (UK, AUS)	
			<b>∆</b> 10	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
			<b>△CNP901</b>	1-551-188-99	CORD, POWER (E)	
X 4041 201 1	(AEP. UK. G. E. S	P. AUS)				
	(7.227, 2.77, 27, 27, 27, 27, 27, 27, 27, 27, 27,	, ,	<b>▲</b> CNP901	1-558-945-21	CORD, POWER (POLAR.SPT-1)(US, CND	))
Δ-2007-535-Δ	MAIN BOARD, COMPLETE (AEP, UK, G, SI	P)	<b>△CNP901</b>	1-575-651-21	CORD, POWER (AEP, G, SP)	
Δ-2007-537-Δ	MAIN BOARD, COMPLETE (E. AUS)	,	<b>△CNP901</b>	1-696-586-11	CORD, POWER (UK)	
			1			
			∆S701	1-692-155-11	SELECTOR, POWER VOLTAGE (E)	
2-702-244-00	BUSHING (2104) CORD (AFP LIK G. SP.	AUS)				
3-703-244-00	DOUTHING (2104), DOTTO (121) ON, O, O,	,,	△T701	1-429-502-11	TRANSFORMER, POWER (US, CND)	
2.702.571.11	BUSHING (S) (4516) CORD (US CND F)	١				P)
		'	1			
					•	
	3-931-432-01 3-704-366-01 3-346-265-31 X-4947-208-1 X-4947-207-1 A-2007-535-A A-2007-537-A A-2007-539-A A-2007-481-A 3-703-244-00 3-703-571-11 3-937-123-01 3-937-123-11	3-931-432-01 CASE (410726) 3-704-366-01 SCREW (CASE) (M3X8) 3-346-265-31 HOLDER, PC BOARD X-4947-208-1 FOOT ASSY (F50150S)(BLACK)(US, CND) X-4947-207-1 FOOT ASSY (F50150S)(SILVER) (AEP, UK, G, E, S A-2007-535-A MAIN BOARD, COMPLETE (AEP, UK, G, S, A-2007-539-A MAIN BOARD, COMPLETE (E, AUS) A-2007-481-A DOLBY-S BOARD, COMPLETE 3-703-244-00 BUSHING (2104), CORD (AEP, UK, G, SP,	3-931-432-01 CASE (410726) 3-704-366-01 SCREW (CASE) (M3X8) 3-346-265-31 HOLDER, PC BOARD X-4947-208-1 FOOT ASSY (F50150S)(BLACK)(US, CND) X-4947-207-1 FOOT ASSY (F50150S)(SILVER) (AEP, UK, G, E, SP, AUS)  A-2007-535-A MAIN BOARD, COMPLETE (AEP, UK, G, SP) A-2007-537-A MAIN BOARD, COMPLETE (E, AUS) A-2007-539-A MAIN BOARD, COMPLETE (US, CND) A-2007-481-A DOLBY-S BOARD, COMPLETE 3-703-244-00 BUSHING (2104), CORD (AEP, UK, G, SP, AUS)  3-703-571-11 BUSHING (S) (4516), CORD (US, CND, E) 3-937-123-01 PANEL, BACK (AEP, G, SP) 3-937-123-11 PANEL, BACK (UK)	* 8 3-931-432-01 CASE (410726) 3-704-366-01 SCREW (CASE) (M3X8) 3-346-265-31 HOLDER, PC BOARD X-4947-208-1 FOOT ASSY (F50150S)(BLACK)(US, CND) X-4947-207-1 FOOT ASSY (F50150S)(SILVER) (AEP, UK, G, E, SP, AUS)  A-2007-535-A MAIN BOARD, COMPLETE (AEP, UK, G, SP) A-2007-537-A MAIN BOARD, COMPLETE (E, AUS) A-2007-539-A MAIN BOARD, COMPLETE (US, CND) A-2007-481-A DOLBY-S BOARD, COMPLETE 3-703-244-00 BUSHING (2104), CORD (AEP, UK, G, SP, AUS)  * 8 * 8 * 8 * CNP901  A T701   3-931-432-01 CASE (410726) 3-704-366-01 SCREW (CASE) (M3X8) 3-346-265-31 HOLDER, PC BOARD X-4947-208-1 FOOT ASSY (F50150S)(BLACK)(US, CND) X-4947-207-1 FOOT ASSY (F50150S)(SILVER) (AEP, UK, G, E, SP, AUS)  A-2007-535-A MAIN BOARD, COMPLETE (AEP, UK, G, SP) A-2007-539-A MAIN BOARD, COMPLETE (E, AUS) A-2007-539-A MAIN BOARD, COMPLETE (US, CND) A-2007-481-A DOLBY-S BOARD, COMPLETE 3-703-244-00 BUSHING (2104), CORD (AEP, UK, G, SP, AUS)  3-703-571-11 BUSHING (S) (4516), CORD (US, CND, E) 3-937-123-01 PANEL, BACK (AEP, G, SP) 3-937-123-11 PANEL, BACK (UK)  * 8 3-933-308-71 * 8 3-937-123-11 * CNP901 1-569-007-11 * CNP901 1-558-945-21 * CNP901 1-558-945-21 * CNP901 1-696-586-11 * ΔCNP901 1-696-586-11 * ΔT701 1-429-502-11 * ΔT701 1-429-503-11 * ΔT701 1-429-613-11 * ΔT701 1-429-656-11	3-931-432-01 CASE (410726) 3-704-366-01 SCREW (CASE) (M3X8) 3-346-265-31 HOLDER, PC BOARD X-4947-207-1 FOOT ASSY (F50150S)(SILVER) (AEP, UK, G, E, SP, AUS)  A-2007-535-A MAIN BOARD, COMPLETE (AEP, UK, G, SP) A-2007-539-A MAIN BOARD, COMPLETE (E, AUS) A-2007-539-A MAIN BOARD, COMPLETE (US, CND) A-2007-481-A DOLBY-S BOARD, COMPLETE (US, CND) 3-703-571-11 BUSHING (2104), CORD (AEP, UK, G, SP, AUS) 3-937-123-01 PANEL, BACK (AEP, G, SP) 3-937-123-11 PANEL, BACK (UK)  * 8 3-933-308-71 PANEL, BACK (AUS) 9 4-956-370-12 BAND, PLUG FIXED (UK, AUS) A-956-370-12 CORD, POWER (E)  * 8 3-937-123-31 PANEL, BACK (AUS) 1-569-007-11 ADAPTER, CONVERSION 2P (E)  * CNP901 1-558-945-21 CORD, POWER (POLAR.SPT-1)(US, CND ACNP901 1-575-651-21 CORD, POWER (AEP, G, SP) A-2007-539-A MAIN BOARD, COMPLETE (US, CND) Δ*CNP901 1-696-586-11 CORD, POWER (AUS) Δ*T701 1-429-502-11 TRANSFORMER, POWER (US, CND) Δ*T701 1-429-503-11 TRANSFORMER, POWER (AEP, UK, G, SP) Δ*T701 1-429-613-11 TRANSFORMER, POWER (E) Δ*T701 1-429-613-11 TRANSFORMER, POWER (E) Δ*T701 1-429-656-11 TRANSFORMER, POWER (E) Δ*T701 1-429-656-11 TRANSFORMER, POWER (AUS)	

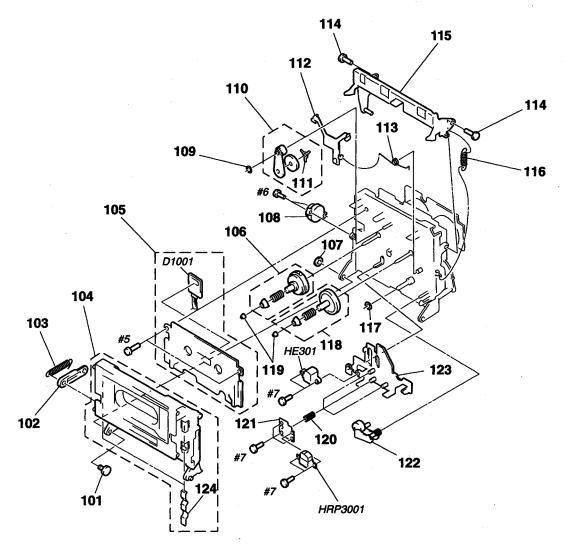
### (2) FRONT PANEL SECTION

- ●C: POWER SW BOARD ●D: DISPLAY BOARD ●E: EJECT BOARD ●F: JACK BOARD



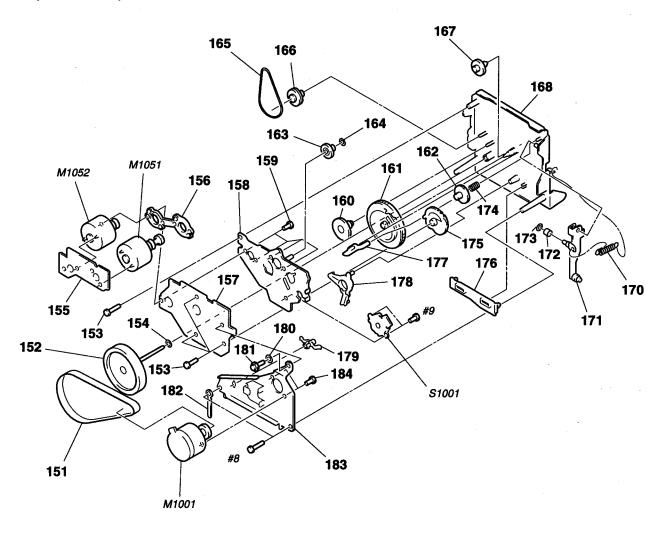
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-933-300-11	KNOB (REC)		58	4-977-358-11	<b>CUSHION (8X12.5)</b>	
52		LID ASSY, CASSETTE (AEP, UK, G, E, SP,	AUS)	59	4-951-620-01	SCREW (2.6X8), +BVTP	
52		LID ASSY, CASSETTE (US, CND)	•	60	3-931-429-01	BUTTON (POWER)	
53		PANEL ASSY, FRONT (AEP, UK, G, E, SP,	AUS)	61	3-933-299-01	KNOB (DIA. 12)	
53		PANEL ASSY, FRONT (US, CND)	·	* 62	A-2007-536-A	PANEL BOARD, COMPLETE (E)	
54	4-963-404-21	EMBLEM (5-A), SONY		* 62	A-2007-538-A	PANEL BOARD, COMPLETE (US, CND,	AUS)
55		BUTTON (C.E)		* 62	A-2007-540-A	PANEL BOARD, COMPLETE (AEP, UK, G	i, SP)
56		BUTTON (MONITOR)		63	1-777-110-11	WIRE (FLAT TYPE)(6 CORE)	
57	+ +	RING (DIA 50), ORNAMENTAL		64	1-777-109 <b>-</b> 11	WIRE (FLAT TYPE)(39 CORE)	
٠,		(AEP, UK, G, E,	SP, AUS)	]			

# (3) MECHANISM DECK SECTION-1 (TCM-200V21)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-378-341-01	SHAFT (L) (CASSETTE HOLDER)		115	X-3371-408-1	LEVER (LIFTER) ASSY	
* 102	3-356-717-01	LEVER (JOINT)		116	3-356-625-01	SPRING, TENSION	
103	3-356-626-01	SPRING, TENSION		117	3-356-713-01	WASHER	
104	X-3371-433-1	HOLDER (CD-C) ASSY, CASSETTE		118	X-3356-627-1	GEAR (T) ASSY	
105	X-3371-412-1	PLATE ASSY, ORNAMENTAL		119	3-362-308-01	CAP (REEL)	
106	X-3356-628-1	GEAR (S) ASSY		120	3-356-659-11	SPRING (RPH), COMPRESSION	
107	3-558-708-21	WASHER, STOPPER		121	3-356-742-11	BRACKET (GUIDE R)	
108	3-712-786-01	DAMPER, OIL		122	X-3371-414-1	LEVER (PINCH LEVER T) ASSY	
109	3-669-465-11	WASHER (FR2)		123	X-3371-431-1	SLIDER (HEAD CHASSIS V21M)ASSY	
110	X-3371-411-1	LEVER (FR2) ASSY		124	3-356-691-11	SPRING (CASSETTE)	
111	3-356-644-11	SPRING (FR), LEAF		D1001	8-719-980-85	DIODE SLF-325C	
112	3-356-614 <b>-</b> 01	SLIDER (BRAKE)		HE301	1-543-673-11	HEAD, MAGNETIC (ERASE)	
113 114	3-356-619-01 3-356-601-11	SPRING (B), TORSION SCREW, STEP		HRP301	1-543-733-11	HEAD, MAGNETIC(RECORD/PLAYBACK)	

# (4) MECHANISM DECK SECTION-2 (TCM-200V21)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-356-744-01	BELT (CAPSTAN V)		171	X-3371-407-1	LEVER (LOADING) ASSY	
152		FLYWHEEL (R FWD) ASSY		172	3-356-630-01		
153		SCREW (BTP 2X18)		173	3-558-708-11	WASHER, STOPPER	
154	3-356-705-01	WASHER (CAPSTAN)		174	3-356-605-01	SPRING, COMPRESSION	
* 155	1-632-741-21	REEL MOTOR BOARD		175	3-356-616-01	•	
156	3-356-628-11	SPACER (MOTOR)		176	3-356-653-01	SLIDER (PAUSE)	
* 157	1-632-740-11	MD BOARD		177	3-356-617-01	LEVER (SELECTION)	
* 158	X-3371-426-1	BRACKET (MOTOR RM) ASSY		178	3-356-613-01	LEVER (MODE)	
159	3-363-804-01	SCREW (+P 2.6X6.5)		179	3-575-321-00	RETAINER, THRUST, CAPSTAN	
160	3-356-606-01	GEAR (MODE)		* 180	3-356-718-01	SPACER (THRUST RETAINER R)	
161	3-356-747-01	GEAR (MODE CAM C)		181	3-356-707-01	SCREW (+PTPWH 2X25)	
. 162	3-356-609-01	GEAR (LOADING)		182	3-703-397-01	STOPPER, WIRING	
163	3-356-702-11	GEAR (COMMUNICATION B)		183	3-356-629-31	BRACKET (THRUST RETAINER R)	
164	3-669-465-01	WASHER (1.5), STOPPER		184	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
165	3-356-603-01	BELT (MODE)		M1001	X-3371-423-1	MOTOR (CAPSTAN V21M) ASSY	
166	3-356-607-01	PULLEY (MODE)		M1051	X-3371-429-1	MOTOR (REEL RM) ASSY	
167	3-356-703-01	GEAR (COMMUNICATION C)		M1052	X-3371-428-1	MOTOR (ASSIST) ASSY	
168	X-3371-417-1	CHASSIS (V21M) COMPLETE ASSY		S1001	1-466-238-11	ENCODER, ROTARY	
170	3-356-624-01	SPRING, TENSION	İ				

### **DOLBY S**

MAIN

### **HP JACK**

# SECTION 7 ELECTRICAL PARTS LIST

#### NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
   All resistors are in ohms.
   METAL: Metal-film resistor.
   METAL OXIDE: Metal oxide-film resistor.
   F: nonflammable
- Abbreviation

CND: Canadian SP: Singapore G: German AUS: Australian

- Items marked "\*" are not stocked since they are seldom required for routine service.
   Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS

In each case, u:  $\mu$ , for example:

uPD. . : μPD. .

 CAPACITORS uF: μF

• COILS uH: μH The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité.

sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		<del></del>	0011D1 FTF				. ————	< CHIP CONDUCTO	D.		
*	A-2007-481-A	DOLBY S BOARD,						CONF CONDUCTO	n >		
		******	******			J1	1-216-206-00	CONDUCTOR, CHIE	(3216)		
		OADAOITOD .				J2		CONDUCTOR, CHIE			
		< CAPACITOR >				J3		CONDUCTOR, CHIE	, ,		
0.4	4 400 405 00	FILM.	0.1	E0/	50V	100	1-210-230-00	GOINDGOTOR, OTH	(0210)		
C1	1-136-165-00		0.1uF	5%				< RESISTOR >			
C2		CERAMIC CHIP	0.0018uF	10%	50V 50V			( TILOIOTOTI >			
C3		CERAMIC CHIP	0.0018uF	10%		R1	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
C4		CERAMIC CHIP	0.22uF	E0/	25V 50V	R2	1-208-811-11		16K	2%	1/10W
C5	1-136-165-00	FILM	0.1uF	5%	30 V	R3	1-208-791-11		2.4K	2%	1/10W
		E11.54	0.4	E0/	EOV	R4	1-208-799-11		5.1K	2%	1/10W
C6	1-136-165-00		0.1uF	5%	50V	R5	1-216-689-11		39K	0.5%	1/10W
C7	1-137-372-11		0.022uF	5%	50V	טח	1-210-003-11	WIL IAL OITH	JUN .	0.070	171011
C8		CERAMIC CHIP	0.22uF	0001	25V	ne	1-216-689-11	METAL CUID	39K	0.5%	1/10W
C9	1-126-301-11		1uF	20%	50V	R6			33	0.5%	1/10W
C10	1-137-442-11	FILM	0.039uF	5%	50V	R7	1-216-615-11		10K	2%	1/10W
						R8	1-208-462-41			2%	1/10W
C11		CERAMIC CHIP	680PF	10%	50V	R9	1-208-812-11		18K		
C12	1-164-717-11	CERAMIC CHIP	0.0082uF	5%	50V	R10	1-216-615-11	METAL CHIP	33	0.5%	1/1 <b>0W</b>
C13	1-163-038-00	CERAMIC CHIP	0.1uF		25V	l		**ETAL OUID	47	0.50/	4 /4 (0) 4/
C14	1-124-465-00	ELECT	0.47uF	20%	50V	R11	1-216-619-11		47	0.5%	1/10W
C15	1-164-222-11	CERAMIC CHIP	0.22uF		25V	R12	1-216-684-11		24K	0.5%	1/10W
						R13	1-216-615-11		33	0.5%	1/10W
C16	1-163-038-00	CERAMIC CHIP	0.1uF		25V	R14	1-216-619-11		47	0.5%	1/10W
C17	1-124-465-00	ELECT	0.47uF	20%	50V	R15	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
C18	1-163-038-00	CERAMIC CHIP	0.1uF		25V						44044
C19	1-164-222-11	CERAMIC CHIP	0.22uF		25V	R16	1-216-678-11		13K	0.5%	1/10W
C20	1-163-035-00	CERAMIC CHIP	0.047uF		50V	R17	1-216-673-11		8.2K	0.5%	1/10W
						R18	1-208-462-41		10K	2%	1/10W
C21	1-164-717-11	CERAMIC CHIP	0.0082uF	5%	50V	R19	1-208-462-41		10K	2%	1/10W
C22	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R20	1-216-689-11		39K	0.5%	1/1 <b>0W</b>
C23		CERAMIC CHIP	470PF	10%	50V	******	******	******	******	******	******
C24	1-137-442-11	FILM	0.039uF	5%	50V						
C25	1-136-165-00		0.1uF	5%	50V	*		MAIN BOARD, CO			
						*		MAIN BOARD, CO			, SP)
C26	1-137-372-11	FILM	0.022uF	5%	50V	*	A-2007-537-A	MAIN BOARD, CO		, AUS)	
								******	*****		
		< CONNECTOR >									
								HP JACK, BOARD			
CN1	1-695-092-11	SOCKET, CONNEC	CTOR 7P					*****			
2											
* .		< IC >				*	1-537-770-11	TERMINAL BOARD	), GROUND	)	
		<del>-</del> -				*		HOLDER (TR)			
IC1	8-752-077-95	IC CXA1917AM-	T6				7-682-548-04	SCREW +BVTT 3	X8 (S)		
						*	3-356-925-01	HEAT SINK			

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		< CAPACITOR >			-	C157	1-126-964-11	ELECT	10uF	20% (US CN	50V D, E, AUS)
C101	1-126-965-11	ELECT	22uF	20% (US CN	50V D, E, AUS)	C157	1-124-721-71	ELECT	10uF	20%	50V UK, G, SP)
C101	1-126-049-11	ELECT	22uF	20%	50V UK, G, SP)	C158 C159	1-136-158-00 1-102-518-11		0.027uF 33PF	5% 5%	50V 50V
C102 C103	1-136-495-11 1-136-165-00		0.068uF 0.1uF	5% 5%	50V 50V	C160	1-137-434-11		0.0018uF	5%	50V
C104	1-126-964-11		10uF	20%	50V D, E, AUS)	C161 C181	1-137-434-11 1-124-925-11	ELECT	0.0018uF 2.2uF	5% 20%	50V 100V
C104	1-124-721-71	ELECT	10uF	20%	50V	C191	1-126-963-11		4.7uF		50V D, E, AUS)
C105		CERAMIC CHIP	0.0027uF	5%	UK, G, SP) 50V	C191	1-124-721-71		10uF	•	50V UK, G, SP)
C106	1-126-963-11		4.7uF 4.7uF	20% (US, CN) 20%	50V D, E, AUS) 50V	C201	1-126-965-11	ELECT	22uF	20% (US, CN	50V D, E, AUS)
C106 C111	1-124-720-11 1-126-965-11		4.7uF 22uF		50V UK, G, SP) : 50V	C201	1-126-049-11	ELECT	22uF	20% (AFP	50V UK, G, SP)
0771	1 120 303 11	LLLOI	2241		D, E, AUS)	C202 C203	1-136-495-11 1-136-165-00		0.068uF 0.1uF	5% 5%	50V 50V
C111	1-126-049-11	ELECT	22uF	20% (AEP, I	50V UK, G, SP)	C204	1-126-964-11		10uF	20%	50V D, E, AUS)
C112 C113	1-136-173-00 1-126-964-11	ELECT	0.47uF 10uF	5% 20%	50V 50V	C204	1-124-721-71	ELECT	10uF	20% (AEP,	50V UK, G, SP)
C114 C118	1-137-366-11 1-124-902-00		0.0022uF 0.47uF	5% 20%	50V 100V	C205		CERAMIC CHIP	0.0027uF	5%	50V
C110	1-126-043-11	ELECT	0.47uF	20%	D, E, AUS) 50V	C206 C206	1-126-963-11		4.7uF 4.7uF	20% (US, CN 20%	50V D, E, AUS) 50V
C118 C121	1-107-597-11		22PF		UK, G, SP) 500V	C211	1-126-965-11		4.7uF		UK, G, SP) 50V
C122 C123	1-137-428-11	FILM	180PF 560PF	5% 5%	50V 50V	C211	1-126-049-11		22uF		D, E, AUS) 50V
C124	1-101-810-00		100PF	5%	500V	0271	, ,200,0		2201		UK, G, SP)
C125 C126	1-136-803-11 1-136-161-00		560PF 0.047uF	5% 5%	630V 50V	C212 C213	1-136-173-00 1-126-964-11		0.47uF 10uF	5% 20%	50V 50V
C127 C128	1-136-157-00 1-136-153-00	FILM	0.022uF 0.01uF	5% 5%	50V 50V	C214 C218	1-137-366-11 1-124-902-00		0.0022uF 0.47uF	5% 20%	50V 100V
C141	1-124-925-11	ELECT	2.2uF	20% (US, CN	50V D, E, AUS)	C218	1-126-045-11	ELECT	2.2uF	20%	D, E, AUS) 50V
C141	1-124-720-11	ELECT	4.7uF	20%	50V UK, G, SP)	C224	1-107-597-11	CEDAMIC	22PF	(AEP,	UK, G, SP) 500V
C142 C143	1-136-165-00 1-136-495-11		0.1uF 0.068uF	5% 5%	50V 50V	C221 C222 C223	1-137-428-11 1-137-431-11	FILM	180PF 560PF	5% 5% 5%	50V 50V 50V
C151.		CERAMIC CHIP	270PF	5%	50V	C224	1-101-810-00		100PF	5%	500V
C152	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V	C225	1-136-803-11		560PF	5%	630V
C153	1-104-665-11	· ·	100uF	20%	25V	C226	1-136-161-00		0.047uF	5%	50V
C154	1-126-968-11	ELEUI	100uF	20% (US, CN)	50V D, e, aus)	C227 C228	1-136-157-00 1-136-153-00		0.022uF 0.01uF	5% 5%	50V 50V
C154	1-126-052-11	ELECT	100uF	20%	50V JK, G, SP)	C241	1-124-925-11		2.2uF	20% (US, CN	50V D, E, AUS)
C155 C156	1-136-157-00 1-163-117-00	FILM CERAMIC CHIP	0.022uF 100PF	5% 5%	50V 50V	C241	1-124-720-11	ELECT	4.7uF	20% (AEP,	50V UK, G, SP)

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C242	1-136-165-00	FILM	0.1uF	5%	50V	C352	1-126-965-11	ELECT	22uF	20%	50V
C243	1-136-495-11		0.068uF	5%	50V		25 555				D, E, AUS)
C251		CERAMIC CHIP	270PF	5%	50V	C352	1-126-049-11	ELECT	22uF	20%	50V
C252		CERAMIC CHIP	0.0015uF	5%	50V	-					UK, G, SP)
C253	1-104-665-11		100uF	20%	25V					(- 12. )	o, a, o. ,
0233	1 104 000 11	LLLOI	Toour	2070	201	C371	1-130-494-11	MYLAR	0.082uF	5%	50V
C254	1-126-968-11	ELECT	100uF	20%	50V	C372	1-137-436-11		0.0039uF	5%	50V
0234	1-120-900-11	ELECT	Tooul		D, E, AUS)	C386	1-126-923-11		220uF	20%	10V
0054	1 100 050 11	CLECT	100uF	20%		C387	1-126-923-11		220uF	20%	10V 10V
C254	1-126-052-11	ELECT	IOUUF		50V			CERAMIC CHIP	100PF	20 % 5%	50V
0055	4 400 457 00	F11.34	0.000		JK, G, SP)	C421	1-103-117-00	GENAIVIIG GRIP	IUUFF	370	30V
C255	1-136-157-00		0.022uF	5%	50V	0.400	1 100 000 01	OFDAMIO OUID	0.000		501/
C256		CERAMIC CHIP	100PF	5%	50V	C422		CERAMIC CHIP	0.022uF	<b>50</b> /	50V
C257	1-126-964-11	ELECT	10uF	20%	50V	C423		CERAMIC CHIP	56PF	5%	50V
				(US, CNI	d, e, aus)	C424	1-124-925-11		2.2uF	20%	100V
						C431	1-126-916-11		1000uF	20%	6.3V
C257	1-124-721-71	ELECT	10uF	20%	50V	C701	1-126-768-11	ELECI	2200uF	20%	16V
					JK, G, SP)					(US, CN	D, E, AUS)
C258	1-136-158-00		0.027uF	5%	50V						
C259	1-102-518-11		33PF	5%	50V	C701	1-124-556-11	ELECT	2200uF	20%	16V
C260	1-137-434-11	FILM	0.0018uF	5%	50V						UK, G, SP)
C261	1-137-434-11	FILM	0.0018uF	5%	50V	C702	1-126-936-11	ELECT	3300uF	20%	16V
										(US, CN	D, E, AUS)
C271	1-126-964-11	ELECT	10uF	20%	50V	C702	1-126-015-11	ELECT	3300uF	20%	16V
C272	1-124-925-11	ELECT	2.2uF	20%	100V					(AEP,	UK, G, SP)
C281	1-124-925-11	ELECT	2.2uF	20%	100V	C703	1-104-664-11	ELECT	47uF	20%	25V
C291	1-126-963-11		4.7uF	20%	50V					(US, CN	D, E, AUS)
				(US, CNI	D, E, AUS)	C703	1-124-910-11	ELECT	47uF	20%	50V
C291	1-124-721-71	ELECT	10uF	20%	50V					(AEP,	UK, G, SP)
					JK, G, SP)					• •	,
				(	,, ,	C704	1-126-027-11	ELECT	1000uF	20%	25V
C301	1-126-965-11	ELECT	22uF	20%	50V	C705	1-126-027-11		1000uF	20%	25V
0001	1 120 000 11				D, E, AUS)	C706	1-126-968-11		100uF	20%	50V
C301	1-126-049-11	FLECT	22uF	20%	50V	C707	1-126-964-11		10uF	20%	50V
0001	1 120 0 10 11	CLEOT	ui		JK, G, SP)	C708	1-126-937-11		4700uF	20%	16V
C302	1-126-965-11	FLECT	22uF	20%	50V	0.00					
0002	1 120 000 11	LLLOT	LLui		D, E, AUS)	C709	1-126-964-11	FLECT	10uF	20%	50V
C302	1-126-049-11	FLECT	22uF	20%	50V	C710	1-126-963-11		4.7uF	20%	50V
0002	1 120 045 11	LLLOI	2201		JK, G, SP)	C711	1-126-967-11		47uF	20%	35V
C303	1-124-903-11	ELECT	1uF	20%	50V	C712	1-126-927-11		2200uF	20%	10V
0303	1-124-303-11	LLLO	Tui	20 /0	JUV	C713	1-126-946-11		6800uF	20%	25V
C311	1-124-903-11	ELECT	1uF	20%	50V	0,10	1-120-340-11	LLLO	ooodui	20 /0	201
C319	1-126-964-11		10uF	20%	50V	C715	1-126-964-11	FLECT	10uF	20%	50V
						1			2200uF	20%	16V
C321	1-126-967-11		47uF	20%	35V	C716	1-126-768-11			20 <i>%</i> 5%	50V
C322	1-126-967-11		47uF	20%	35V	C805	1-136-165-00		0.1uF		
C323	1-107-584-11	CERAMIC	4PF	0.25PF	ουυν	C806	1-136-165-00		0.1uF	5%	50V
0004	4 400 550 44	FII 34	0.0000	r0/	COOL	C807	1-103-033-91	CERAMIC CHIP	0.022uF		50V
C324	1-136-558-11		0.0039uF	5%	630V	0000	4 400 000 04	OEDAMIO OLUB	0.000		501/
C325	1-126-965-11		22uF	20%	50V	C808		CERAMIC CHIP	0.022uF	000/	50V
C326	1-106-359-00		4700PF	5%	200V	C809	1-124-902-00		0.47uF	20%	50V
C327	1-106-349-00		0.0018uF	5%	100V	C810		CERAMIC CHIP	0.1uF		50V
C328	1-106-349-00	MYLAR	0.0018uF	5%	100V	C811		CERAMIC CHIP	0.1uF		50V
						C813	1-124-902-00	ELECT	0.47uF	20%	50V
C343	1-124-925-11		2.2uF	20%	100V				<b>.</b>		
C351	1-126-965-11	ELECT	22uF	20%	50V	C830	1-136-165-00		0.1uF	5%	50V
					D, E, AUS)	C831	1-126-933-11		100uF	20%	10V
C351	1-126-049-11	ELECT	22uF	20%	50V	C901	1-165-319-11	CERAMIC CHIP	0.1uF		50V
				(AEP, I	JK, G, SP)						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1101. 140.						<del></del>	
		< CONNECTOR >		D709		DIODE ZSML-5.6X-T1	
				D710		DIODE ZSML-5.6X-T1	
		PIN, CONNECTOR 3P		D711		DIODE ZSML-5.6X-T1	
CN701		PIN, CONNECTOR (PC BOARD) 10P		D712		DIODE 10E2	
		CONNECTOR, FFC/FPC 6P		D715	8-719-988-62	DIODE 1SS355 (US, CND, E, AUS)	
		PIN, CONNECTOR 5P (US, CND, E, AUS	)	D740	0.740.040.40	DIODE 70111 407 T4	
CN805	1-778-065-11	SOCKET, CONNECTOR 39P		D716		DIODE ZSML-12Z-T1	
		P.41 - 0.014150TOB (D00) (1/T/DE) ED		D717		DIODE 1SS355	
		PIN, CONNECTOR (PCB)(V TYPE)5P		D718		DIODE ZSML-7.5Y-T1	
		PIN, CONNECTOR 4P		D719		DIODE ZSML-6.2Z-T1	
		PIN, CONNECTOR 2P		D720	8-719-988-62	DIODE 1SS355 (US, CND, E, AUS)	
		PIN, CONNECTOR 4P					
* CNP376	1-568-954-11	PIN, CONNECTOR 5P		D721		DIODE 1SS355	
				D722		DIODE RBA-402-SL	
		PIN, CONNECTOR (PC BOARD) 6P		D723		DIODE ZSML-5.6X-T1	
		PIN, CONNECTOR (PC BOARD) 7P		D724		DIODE 1SS355	
		PIN, CONNECTOR (PC BOARD) 7P		D801	8-719-988-62	DIODE 1SS355	
		PIN, CONNECTOR (PC BOARD) 7P					
CP241	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P		D802		DIODE 1SS355	
				D803		DIODE 1SS355	
		< DIODE >		D804	8-719-988-62	DIODE 1SS355	
D151	8-710-010-12	DIODE ZSML-5.6X-T1				< IC >	
D131		DIODE 1SS355				(10)	
D181		DIODE 188355		IC301	9-752-066-36	IC CXA1563M	
		DIODE 753555 DIODE ZSML-5.6X-T1		IC304		IC uPC1297CA	
D183			•				
D251	8-719-019-12	DIODE ZSML-5.6X-T1		IC311		IC CXA1598M	
D004	0.740.000.00	DIODE 1000CE		IC341		IC CXA1563M	
D281		DIODE 188355		IC351	8-/09-030-00	IC M5218AFP	
D282		DIODE 1SS355		10074	0.750.400.00	IO PO 455000	
D283		DIODE ZSML-5.6X-T1		IC371		IC uPC4558G2	
D301		DIODE 1SS355		IC372		IC uPC4558G2	
D311	8-/19-988-62	DIODE 1SS355		IC381		IC uPC4558G2	
				IC385		IC uPC4558G2	
D312		DIODE 1SS355		IC391	8-759-300-71	IC HD14053BFP	
D313		DIODE 1SS355					
D314		DIODE 1SS355		IC395		IC M5218AFP	
D315		DIODE 1SS355		IC421		IC uPC4558G2	
D321	8-719-988-62	DIODE 1SS355		IC701		IC uPC4558G2	
				IC801		IC M38172M4-171FP	
D322		DIODE 1SS355		IC802	8-759-822-09	IC LB1641	
D341		DIODE 1SS355				1	
D342	8-719-988-62	DIODE 1SS355		IC803		IC BA6219B	
D371	8-719-988-62	DIODE 1SS355		IC804	8-759-165-82	IC PST600E-T	
D372	8-719-988-62	DIODE 1SS355					
	0.740.000.00	DIODE 4000EF				< JACK >	
D373		DIODE 1SS355		1005	4 500 540 44	LACK LADOR TVDE (DUONEO)	
D431		DIODE 1SS355		J385	1-568-519-41	JACK, LARGE TYPE (PHONES)	
D701		DIODE 10E2				0011	
D702		DIODE 10E2				< COIL >	
D703	8-719-200-02	DIODE 10E2			4 440 700 11	INDUCTOR OF IT	
				L121	1-410-780-11		
D704 .		DIODE 10E2		L122	1-410-778-11		
D705	8-719-200-02			L221	1-410-780-11		
D706		DIODE 188355 (US, CND, E, AUS)		L222	1-410-778-11	INDUCTOR 18mH	
D707		DIODE 1SS355			•		
D708	8-719-988-62	DIODE 1SS355 (US, CND, E, AUS)					

### MAIN

## **HP JACK**

Ref.	No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
			< LOW-PASS F	ILTER >		Q705		TRANSISTOR			*
						Q706	8-729-119-78				
		1-236-147-11				Q707			DTC114ES(US,	CND, E,	AUS)
L	PF201	1-236-147-11	FILTER, LOW-F	PASS		Q708	8-729-141-83				
						Q709	8-729-119-78	TRANSISTOR	2SC2785-HFE		
			< JACK >			0740	0.700.440.70	TDANICICTOD	0041175 UEF		
_	1005	4 770 044 40		(LIBIT INIOLIT)		Q710	8-729-119-76				
Р	J395	1-770-614-12	JACK, PIN 4P	(LINE IN/OUT)		Q711	8-729-140-04				
			TOANGICTO			Q712	8-729-224-63				
			< TRANSISTOR	<b>{</b> >		Q722			2SC1623-L5L6		
_	404	0.700.404.00	TDANCICTOR	LINIOO44		Q802	8-729-421-19	INANSISTUR	UN2213		
	101		TRANSISTOR	2SC1623-L5L6		Q803	8-729-901-06	TRANSISTOR	DTA144EK		
	111			2SC1623-L5L6		Q804	8-729-901-06				
	1112 151		TRANSISTOR			Q805	8-729-421-19				
			TRANSISTOR			Q806	8-729-421-19				
Q	152	0-729-217-03	INANSISTUR	238170		Q807	8-729-421-22				
n	153	8-729-120-28	TRANSISTOR	2SC1623-L5L6		Q001	0-123-421-22	INANSISTON	UNZZII		
	154			2SC1623-L5L6		Q808	8-729-421-22	TRANSISTOR	UN2211	•	
	191		TRANSISTOR			Q809	8-729-421-22				
	201		TRANSISTOR			Q810	8-729-801-84				
	211			2SC1623-L5L6		Q811	8-729-421-22				
· ·		0 120 120 20		200,020 2020		Q812	8-729-216-22				
0	212	8-729-120-28	TRANSISTOR	2SC1623-L5L6							
	251		TRANSISTOR					< RESISTOR >			
	252		TRANSISTOR								
	253			2SC1623-L5L6		R101	1-216-097-00	METAL CHIP	100K	5%	1/10W
	254	8-729-120-28	TRANSISTOR	2SC1623-L5L6		R102	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
						R103	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
Q	291	8-729-922-37	TRANSISTOR	2SD2144S		R104	1-216-105-00		220K	5%	1/10W
	311		TRANSISTOR		-	R105	1-216-049-00	METAL CHIP	1K	5%	1/10W
	312		TRANSISTOR								
	313		TRANSISTOR			R111	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
	1314	8-729-421-19	TRANSISTOR	UN2213		R112	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R113	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
Q	321	8-729-421-19	<b>TRANSISTOR</b>	UN2213		R114	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
Q	322	8-729-216-22	TRANSISTOR	2SA1162-G		R116	1-216-058-00	METAL CHIP	2.4K	5%	1/10W
Q	1323	8-729-421-19	TRANSISTOR	UN2213						•	
Q	324	8-729-421-19	TRANSISTOR	UN2213		R116	1-216-058-00	METAL CHIP	2.4K	5%	1/10W
Q	325	8-729-421-19	TRANSISTOR	UN2213		R117	1-216-073-00	METAL CHIP	10K	5%	1/10W
				•		R118	1-216-089-00	METAL CHIP	47K	5%	1/10W
Q	1326	8-729-194-57	TRANSISTOR	2SC945-P		R121	1-216-058-00	METAL CHIP	2.4K	5%	1/10W
Q	1327		TRANSISTOR			R122	1 <b>-</b> 216-101-00	METAL CHIP	150K	5%	1/10W
Q	341	8-729-421-19	TRANSISTOR	UN2213							
Q	1351	8-729-620-05	TRANSISTOR	2SC2603-EF		<b></b> ▲R123	1-219-153-11		10	5%	1/4W F
Q	352	8-729-821-04	TRANSISTOR	2SA1317-STU		R124	1-216-085-00	METAL CHIP	33K	5%	1/10W
						R125	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
Q	1371	8-729-107-43	TRANSISTOR	2SC3624-L18		R141	1-216-097-00	METAL CHIP	100K	5%	1/10W
Q	1372	8-729-107-43	TRANSISTOR	2SC3624-L18		R151	1-216-097-00	METAL CHIP	100K	5%	1/1 <b>0W</b>
	373		TRANSISTOR								
Q	1391	8-729-421-19	TRANSISTOR	UN2213		R152	1-216-029-00	METAL CHIP	150	5%	1/10W
Q	1431	8-729-216-22	TRANSISTOR	2SA1162-G		R153	1-216-041-00		470	5%	1/10W
				•		R154	1-216-066-00		5.1K		1/10W
Q	1432		TRANSISTOR			R155	1-216-066-00	METAL CHIP	5.1K	5%	1/1 <b>0W</b>
	1433	8-729-421-19	TRANSISTOR	UN2213		R156	1-216-046-00	METAL CHIP	750	5%	1/10W
Q	702	8-729-900-80	TRANSISTOR	DTC114ES (US, CND, E,	AUS)						
Q	703	8-729-141 <b>-</b> 83	TRANSISTOR	2SB1094-LK		R157	1-216-046-00	METAL CHIP	750	5%	1/10W
	704	8-729-209-15	TRANSISTOR	2SD2012		R158	1-216-025-00	METAL CHIP	100	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
	1-216-021-00	METAL CHIP	68	5%	1/10W	R258	1-216-025-00	METAL CHIP	100	5%	1/10W
R159 R160	1-216-021-00		6.2K	5%	1/10W 1/10W	R259	1-216-021-00		68	5%	1/10W
R161	1-216-081-00		22K	5%	1/10W	R260	1-216-068-00		6.2K	5%	1/10W
NIOI	1-210-061-00	WILLIAL OTTE	2211	J /0	171044	R261	1-216-081-00		22K	5%	1/10W
R162	1-216-100-00	METAL CHIP	130K	5%	1/1 <b>0W</b>	R262	1-216-100-00		130K	5%	1/10W
R163	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	11202	1-210-100-00	WILIAL OITH	1001	370	1/1011
R164	1-216-033-00		1.0K	5%	1/10W	R263	1-216-055+00	METAL CHID	1.8K	5%	1/1 <b>0W</b>
R165	1-216-056-00		2K	5%	1/10W 1/10W	R264	1-216-073-00		1.0K	5%	1/10W
R166	1-216-057-00		2.2K	5%	1/10W	R265	1-216-056-00		2K	5%	1/10W
N I OO	1-210-037-00	METAL OTH	2.2N	J /0	17 10 44	R266	1-216-057-00		2.2K	5%	1/10W
R181	1-216-083-00	METAL CHIP	27K	5%	1/10W	R271	1-216-089-00		47K	5%	1/10W
	1-216-035-00	METAL CHIP	27R 270	5%	1/10W	11271	1-210-003-00	WIL IAL OTHI	771	J /0	171044
R182 R183	1-216-035-00	METAL CHIP	62K	5%	1/10W 1/10W	R272	1-216-083-00	METAL CHID	27K	5%	1/10W
	1-216-092-00		1.5K	5% 5%	1/10W 1/10W	R273	1-216-088-00		43K	5%	1/10W
R185 R186	1-216-053-00		3.3K	5% 5%	1/10W 1/10W	R274	1-216-066-00		5.1K	5%	1/10W
niou	1-210-001-00	WE TAL OHIP	3.3K	J /0	171044	R281	1-216-083-00		27K	5%	1/10W
D107	1-216-033-00	METAL CHIP	220	5%	1/10W	R282	1-216-035-00		270	5%	1/10W
R187	1-216-067-00		5.6K	5%	1/10W	NZOZ	1-210-000-00	WILLIAL OTTI	210	3 70	171044
R188 R191	1-216-007-00		100K	5% 5%	1/10W	R283	1-216-092-00	METAL CHID	62K	5%	1/10W
	1-216-097-00		24K	5%	1/10W	R285	1-216-053-00		1.5K	5%	1/10W
R192 R193			10K	5%	1/10W	R286	1-216-061-00		3.3K	5%	1/10W
การง	1-216-073-00	METAL CHIP	IUK	376	171044	R287	1-216-033-00		220	5%	1/10W
D104	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R288	1-216-067-00		5.6K	5%	1/10W
R194 R195	1-216-057-00		2.2K 18K	5%	1/10W	NZOO	1-210-007-00	MILIAL OTHI	3.01	J 70	171044
R196	1-216-079-00		2.2K	5%	1/10W	R291	1-216-097-00	METAL CHIP	100K	5%	1/10W
R190	1-216-037-00		2.2K 1K	5%	1/10W	R292	1-216-082-00		24K	5%	1/10W
R198	1-216-043-00		22K	5%	1/10W	R293	1-216-073-00		10K	5%	1/10W
N190	1-210-001-00	WEIAL OTH	221	J /0	17 10 44	R294	1-216-057-00		2.2K	5%	1/10W
D201	1-216-097-00	METAL CHIP	100K	5%	1/10W	R295	1-216-079-00		18K	5%	1/10W
R201 R202	1-216-097-00		8.2K	5%	1/10W 1/10W	n293	1-210-075-00	WIL IAL OTHE	ION	J /0	17 1044
R203	1-216-071-00		3.3K	5%	1/10W	R296	1-216-057-00	METAL CHID	2.2K	5%	1/10W
R204	1-216-105-00		220K	5%	1/10W	R297	1-216-049-00		1K	5%	1/10W
R205	1-216-049-00		1K	5%	1/10W	R298	1-216-081-00		22K	5%	1/10W
nzus	1-210-045-00	WILIAL GINF	I IX	J /0	17 10 44	R301	1-208-813-11		20K	2%	1/10W
R211	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	R302			22K	5%	1/10W
R212	1-216-073-00		10K	5%	1/10W	11002	1-210 001 00	WILLIAL OTTO	ZZK	370	171011
R213	1-216-073-00		3.3K	5%	1/10W	R303	1-216-049-00	METAL CHIP	1K	5%	1/10W
R214	1-216-057-00		2.2K	5%	1/10W	R311	1-216-685-11		27K	2%	1/10W
R214	1-216-058-00		2.4K	5%	1/10W	R312	1-216-081-00		22K	5%	1/10W
nz io	1-210-030-00	WILIAL OITH	2.41	J 70	17 10 **	R313	1-216-049-00		1K	5%	1/10W
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W	R316	1-216-065-00		4.7K	5%	1/10W
R218	1-216-089-00		47K	5%	1/10W	11010	1 210 000 00	WILLIAC OTT	7.710	070	17 1011
R221	1-216-058-00		2.4K	5%	1/10W	R317	1-216-097-00	METAL CHIP	100K	5%	1/10W
R222	1-216-101-00		150K	5%	1/10W	R321	1-216-057-00		2.2K	5%	1/10W
<b> A</b> R223	1-219-153-11		10	5%	1/4W F	R322	1-216-049-00		1K	5%	1/10W
211220	1-213-130-11	TOOIDEE	10	0 / 0	17-111	R323	1-216-040-00		470	5%	1/10W
R224	1-216-085-00	METAL CHIP	33K	5%	1/10W	R324	1-216-050-00		1.1K	5%	1/10W
R225	1-216-067-00		5.6K	5%	1/10W	11027	1 210 000 00	WEINE OIII		0 / 0	.,
R241	1-216-097-00		100K	5%	1/10W	R325	1-216-080-00	METAL CHIP	20K	5%	1/1 <b>0W</b>
R251	1-216-097-00		100K	5%	1/10W	R328	1-216-049-00		1K	5%	1/10W
R252	1-216-037-00		150	5%	1/10W	R329	1-216-059-00		2.7K	5%	1/10W
11202	. 210 020 00	WE WE OTH	100	J /0	.,	R330	1-249-390-11		5.6	5%	1/4W
R253	1-216-041-00	METAL CHIP	470	5%	1/10W	R331	1-249-390-11		5.6	5%	1/4W
R254	1-216-041-00		5.1K	5%	1/10W	1,001	1 2-10 000 11	J. 11 12 OH	3.0	J ,0	17 7 7 7
R255	1-216-066-00		5.1K 5.1K	5%	1/10W	R332	1-249-440-11	CARBON	82K	5%	1/4W
R256	1-216-046-00		750	5%	1/10W	R333	1-249-440-11		82K	5%	1/4W
R257	1-216-046-00		750 750	5%	1/10W	R341	1-208-813-11		20K	2%	1/10W
1.201	. 210 040 00		, 50	J /0	,,	R342	1-216-069-00		6.8K	5%	1/10W
							, 2.0 000 00			- / •	

### MAIN

# HP JACK

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R343	1-216-081-00	METAL CHIP	22K	5%	1/10W	R710	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
						R711	1-216-049-00	METAL CHIP	1K	5%	1/10W
R344	1-216-081-00	METAL CHIP	22K	5%	1/10W	R712	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R351	1-216-057-00	METAL CHIP	2.2K	5%	1/10W						
R352	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R713	1-249-417-11	CARBON	1K	5%	1/4W
R371	1-216-054-00		1.6K	5%	1/10W	R714	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R372	1-216-097-00		100K	5%	1/10W	R715	1-216-072-00		9.1K	5%	1/10W
	,,, ,,,					R716	1-216-065-00		4.7K	5%	1/10W
R373	1-216-097-00	METAL CHIP	100K	5%	1/10W						D, E, AUS)
R374	1-216-689-11		39K	0.5%	1/10W	R717	1-216-089-00	METAL CHIP	47K	5%	1/10W
R375	1-216-081-00		22K	5%	1/10W						
R376	1-216-057-00		2.2K	5%	1/10W	R718	1-216-081-00	METAL CHIP	22K	5%	1/10W
R377	1-216-057-00		2.2K	5%	1/10W	<b></b> ∆R719	1-219-135-11		0.15	10%	1/4W F
11077	1 210 007 00		2.2.0	070	1, 1011	<b></b> ∆R720	1-219-137-11		0.33	10%	1/4W F
R378	1-216-066-00	METAL CHIP	5.1K	5%	1/10W	R721	1-249-425-11		4.7K	5%	1/4W
R379	1-216-057-00		2.2K	5%	1/10W	R722	1-216-689-11		39K	0.5%	1/10W
R385	1-247-696-11		47	5%	1/4W	11122	1 210 000 11		5511	0.070	
R391	1-216-081-00		22K	5%	1/10W	R723	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R401	1-216-080-00		20K	5%	1/10W	R724	1-216-065-00		4.7K	5%	1/10W
11401	1-210-000 00	WEIZE OITH	2010	0 /0	171000	R725	1-216-065-00		4.7K	5%	1/10W
R402	1-216-078-00	METAL CHIP	16K	5%	1/10W	11720	1 210 003 00	WILIAL OITH	7.710		), E, AUS)
R403	1-216-070-00		7.5K	5%	1/10W	<b> ⚠</b> R730	1-219-139-11	FIISIRI E	0.68	10%	1/4W F
R404	1-216-070-00		47K	5%	1/10W	<b>△</b> R731	1-219-139-11		0.68	10%	1/4W F
R404	1-216-080-00		20K	5%	1/10W	∆L N/31	1-219-109-11	TOSIDEL	0.00	10 /0	1/778
R405	1-216-092-00		62K	5%	1/10W	R801	1-216-081-00	METAL CHID	22K	5%	1/10W
N400	1-210-092-00	WE IAL OHIP	UZK	J /0	171000	R802	1-216-081-00		22K 22K	5%	1/10W
D407	1-216-082-00	METAL CHID	24K	5%	1/1 <b>0W</b>	R803	1-216-097-00		100K	5%	1/10W
R407 R408	1-216-079-00		18K	5%	1/10W	R804	1-216-049-00		166K	5%	1/10W
	1-216-079-00		11K	5% 5%	1/10W	R806	1-216-065-00		4.7K	5%	1/10W
R409						nouu	1-210-003-00	WIE IAL UNIF	4./ N	370	17 10 99
R410	1-216-085-00		33K	5%	1/10W	D907	1 016 065 00	METAL CLUD	1 7V	E0/	1/10W
R411	1-216-689-11	METAL CHIP	39K	5%	1/ <b>10W</b>	R807	1-216-065-00		4.7K	5% 5%	1/10W
0440	4 040 000 04	METAL OUID	0.41/	E0/	1/1 <b>0W</b>	R808	1-216-065-00		4.7K	5%	1/10W
R412	1-216-082-91		24K	5%		R809	1-216-065-00 1-216-059-00		4.7K 2.7K	5%	1/10W
R413	1-216-085-00		33K	5%	1/10W	R810				5%	
R414	1-216-090-00		51K	5%	1/10W	R811	1-216-059-00	WETAL CHIP	2.7K	5%	1/1 <b>0W</b>
R415	1-216-084-00		30K	5%	1/10W	2010	4 040 040 00	MACTAL OLUD	41/	F0/	4 /4 004/
R416	1-216-090-00	METAL CHIP	51K	5%	1/10W	R812	1-216-049-00		1K	5%	1/10W
D447	4 040 000 00	METAL OLUD	0714	<b>50</b> /	4 /4 0144	R813	1-216-053-00		1.5K	5%	1/10W
R417	1-216-083-00		27K	5%	1/10W	R814	1-216-061-00		3.3K	5%	1/10W
R418	1-216-081-00		22K	5%	1/10W	R815	1-216-045-00		680	5%	1/10W
R423	1-216-089-00		47K	5%	1/10W	R816	1-216-034-00	METAL CHIP	240	5%	1/10W
R425	1-216-097-00		100K	5%	1/10W	4 5047	4 040 054 44	FUOIDI F		F0/	4.004
R426	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	<b></b> ∆R817	1-212-954-11		6.8	5%	1/2W F
				===		R818	1-216-049-00		1K	5%	1/10W
R427	1-216-069-00		6.8K	5%	1/10W	R819	1-216-052-00		1.3K	5%	1/10W
R431	1-216-081-00		22K	5%	1/10W	R820	1-216-050-00		1.1K	5%	1/10W
R432	1-216-033-00		220	5%	1/10W	<b> ⚠ R821</b>	1-212-952-00	FUSIBLE	5.6	5%	1/2W F
R701	1-249-417-11		1K	5%	1/4W						
R702	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	R822	1-216-097-00		100K	5%	1/10W
						R823	1-216-073-00		10K	5%	1/10W
R703	1-216-055-00		1.8K	5%	1/10W	R824	1-216-049-00		1K	5%	1/10W
R704	1-216-030-00		160	5%	1/10W	R825	1-216-089-00		47K	5%	1/10W
R705	1-216-069-00		6.8K	5%	1/10W	R831	1-216-073-00	METAL CHIP	10K	5%	1/1 <b>0W</b>
R706	1-216-053-00	METAL CHIP	1.5K	5%	1/10W			•			
R707	1-216-073-00	METAL CHIP	10K	5%	1/10W	R832	1-216-073-00		10K	5%	1/10W
						R834	1-216-689-11		39K	0.5%	1/1 <b>0W</b>
R708	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	R835	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R709	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	R845	1-216-073-00	METAL CHIP	10K	5%	1/10W

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MAIN

HP JACK

MD

PANEL

DISPLAY

**EJECT** 

**POWER SW** 

**PRIMARY** 

SECONDARY

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R846	1-216-073-00	METAL CHIP	10K	5%	1/10W			< SWITCH >			
R847	1-216-073-00	METAL CHIP	10K	5%	1/10W	S1001	1-466-238-11	ENCODER, ROTA	<b>NRY</b>		
R848	1-216-073-00	METAL CHIP	10K	5%	1/10W	S1002		SWITCH, PUSH			
R849	1-216-073-00		10K	5%	1/10W	S1003		SWITCH, PUSH			
R850	1-216-073-00		10K	5%	1/10W	\$1004		SWITCH, PUSH			
R851	1-216-073-00	METAL CHIP	10K	5%	1/10W	S1005	1-5/2-125-11	SWITCH, LEAF (	ERASE PRUC	)F)	
		< VARIABLE RES	ISTOR >			S1006		SWITCH, LEAF (	,		
DV444	1 000 010 11	DEC ADI CADDO	ON 471/			S1007		SWITCH, LEAF ( SWITCH, LEAF (			
		RES, ADJ, CARBO				S1008	1-072-120-11	SWITCH, LEAF (	ι υμο)		
		RES, ADJ, CARBO						< TERMINAL >			
		RES, ADJ, CARBO									
		RES, ADJ, CARBO				* TB1001	1-694-018-11	TERMINAL (5P)			
		250 121 0125	201 0014			******	******	******	******	******	*****
		RES, ADJ, CARBO				*	A_2007.E20.A	PANEL BOARD,	COMDIETE (	HE CND	AHC)
		RES, ADJ, CARBO				*		PANEL BOARD,			
		RES. ADJ. CARBO				*		PANEL BOARD,			a, o. ,
111012	127770011	1120, 7120, 07.1120						*****		-,	
		< TRANSFORMER	₹>			ı		DICDI AV BOADE	,		
T121	1_/32_3//_11	TRANSFORMER,	RIAS OSCI	LLATION				DISPLAY BOARD	,		
T221		TRANSFORMER,									
T321		TRANSFORMER,						EJECT BOARD			
								******			
		< CONNECTOR >						POWER SW BOA	חפו		
* TP321	1-564-506-11	PLUG, CONNECTO	OR 3P					***********			
* TP802		PIN, CONNECTOR									
		,				!		PRIMARY BOAR	D (EXCEPT E	)	
		< VIBRATOR >				ļ		*****	*		
X801	1-577-358-21	VIBRATOR, CERA	MIC (4MH	ł <b>7</b> )				SECONDARY BO	ARD		
		*******	•	•	*****			*****			
	1 000 740 11	MD DOADD				*	2 206 246 11	HOLDED (EL)			•
•	1-632-740-11	*******				*	3-300-243-11	HOLDER (FL)			
								< CAPACITOR >			
	3-356-631-01	HOLDER (SENSO	R)			A 0717	1 110 005 11	EL COT	0.01	000/	0501/
		< CONNECTOR >				<b>∆</b> C717	1-113-925-11	ELECT	0.01uF	20% (AFP)	250V UK, G, SP)
		COMMEDIONS				C720	1-136-165-00	FILM	0.1uF	5%	50V (E)
CN1001	1-506-615-11	PIN, CONNECTOR	R 9P			C721	1-136-165-00		0.1uF	5%	50V (E)
		PIN, CONNECTOR				C722	1-136-165-00	FILM	0.1uF	5%	50V (E)
						C723	1-136-165-00	FiLM	0.1uF	5%	50V (E)
		< IC >				C724	1-164-159-11	CERAMIC	0.1uF		50V (E)
JC1001	8-749-020-07	IC PHOTO REFL	ECTOR GP	2S22B		C724	1-136-165-00		0.1uF	5%	50V (E) 50V
		IC PHOTO REFLI				0120	1 100 100 00		(US, CND, A		
.51002	2 020 01					C726	1-136-165-00	FILM	0.1uF	5%	50V
		< RESISTOR >							(US, CND, A	EP, UK, G	, SP, AUS)
D1001	1-247-810-11	CARRON	130	5%	1/4 <b>W</b>						
R1001 R1002	1-247-810-11		130	5% 5%	1/4 <b>W</b>						
111002	1 241 010-11	ONLIDON	100	0 /0	17 7 7 7	•					

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**PANEL** 

DISPLAY

**EJECT** 

**POWER SW** 

PRIMARY

SECONDARY

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C727	1-136-165-00	FII M	0.1uF	5%	50V	R911	1-249-422-11	CARBON	2.7K	5%	1/4W
0121	1 100 100 00		(US, CND,			R912	1-247-848-11		5.1K	5%	1/4W
0700	1-136-165-00	EII M	0.1uF	5%	50V	R915	1-249-429-11		10K	5%	1/4W
C728	1-130-100-00	LILIAI	(US, CND,			R916	1-247-866-11		30K	5%	1/4W
			(บอ, เพบ,	AEP, UK, U	, or, Aug)	R917	1-247-836-11		1.6K	5%	1/4W
					5014	h91/	1-247-030-11	CARDON	1.01	J /0	1/744
C729	1-164-159-11	CERAMIC	0.1uF		50V				0.41/	<b>5</b> 0/	4 /414/
			(US, CND,	aep, UK, G	, SP, AUS)	R918	1-247-840-00		2.4K	5%	1/4W
						R919	1-249-423-11		3.3K	5%	1/4W
		< CONNECTOR	>			R920	1-249-426-11	CARBON	5.6K	5%	1/4W
						R921	1-247-858-11	CARBON	13K	5%	1/4W
* CN901	1-750-444-11	CONNECTOR, F	FC/FPC 39P (	AFP. UK. G	i. SP)	R922	1-247-868-11	CARBON	36K	5%	1/4W
CN901		SOCKET, CONN									
				00, 0110, 1	-, 7.00)	R923	1-247-807-31	CARBON	100	5%	1/4W
		CONNECTOR, F		ים ים		11920	1-241-001-01	UNITEDIT	100		.,
* CNP702	1-580-230-31	PIN, CONNECT			00 4110)			. MADIABLE DECI	CTOD .		
		(US, CND, AEP, UK, G, SP, AUS)				< VARIABLE RESISTOR >					
CNP703	1-568-226-11	PIN, CONNECT	OR 2P (AEP, I	JK, G, SP)						. = 0 . 5 . 15	
						RV311		RES, VAR, CARBO			:L)
		< DIODE >				RV321	1-225-222-11	RES, VAR, CARBO	)N 5K/5K (E	BIAS)	
						RV395	1-225-219-11	RES, VAR, CARBO	ON 50K/50K	(BALAN	CE)
D901	0_710_007_62	DIODE 1N414	ISM			RV396		RES, VAR, CARBO			
		DIODE 1N414				111000	. 220 220	,,			,
D902								< SWITCH >			
D903	8-719-987-63	DIODE 1N414	ININ			1		COWITOTIO			
						20004	4 554 000 04	CANTON TACTOR	· /=\		
		< IC >				\$901		SWITCH, TACTILE			
						S902		SWITCH, TACTILE			
IC901	8-741-810-59	IC SBX1810-9	59			S903	1-554-303-21	SWITCH, TACTILE	E (▶►)		
	•					S904	1-554-303-21	SWITCH, TACTILI	E (● REC)		
		< TRANSISTOR	3.5			S905	1-554-303-21	SWITCH, TACTILI	(O REC	MUTE)	
		(111111101010101	.,					•	•	•	
0001	0 700 000 00	TRANSISTOR	DTC144ES			S906	1-554-303-21	SWITCH, TACTILI	F ( <b>(&gt;</b> )		
Q901						S907		SWITCH, TACTILI		E١	
Q902		TRANSISTOR				1					
Q903	8-729-900-89	TRANSISTOR	DTC144ES			S908		SWITCH, TACTILI		1)	
						S909		SWITCH, TACTILI			
		< RESISTOR >				S910	1-554-303-21	SWITCH, TACTILI	E (MONITO	R)	
R115	1-249-425-11	CARBON	4.7K	5%	1/4W	S911	1-554-303-21	SWITCH, TACTILI	E (CALIBRA	ATION)	
R215	1-249-425-11		4.7K	5%	1/4W	S912	1-554-303-21	SWITCH, TACTILI	E (合 OPEN	/CLOSE)	
	1-249-429-11		10K	5%	1/4W	S913		SWITCH, ROTAR'			
R327					1/4W	S915		SWITCH, PUSH (			
R830	1-249-429-11		10K	5%		3913	1-702-300-11	SWITCH, I COIT	1 KL1) (1 0		ND. E. AUS)
R833	1-249-429-11	CARBON	10K	5%	1/4W	4 0000	4 700 504 44	CWITCH AC DOW	VED DUCH	, , -	
						<b>₼</b> S922	1-/02-581-11	SWITCH, AC POV	VEN FUOR		
R838	1-249-441-11		100K	5%	1/4W					(AEP	, UK, G, SP)
R839	1-249-441-11	CARBON	100K	5%	1/4W	[					
R840	1-249-441-11		100K	5%	1/4W			< TRANSFORMER	₹>		
R841	1-249-441-11		100K	5%	1/4W	1					
R842	1-249-441-11		100K	5%	1/4W	<b>▲T701</b>	1-429-502-11	TRANSFORMER,	POWER (U	S. CND)	
N042	1-249-441-11	CARDON	TOOK	<b>J</b> /0	1/700	<b>▲T701</b>		TRANSFORMER,			SP)
		CARROSS	1001	E0/	4 /414/			TRANSFORMEE,			, 5. /
R843	1-249-441-11		100K	5%	1/4W	<b>△T701</b>					
R844	1-249-441-11		100K	5%	1/4W	<b>▲T701</b>	1-429-656-11	TRANSFORMER,	PUWEK (A	ua)	
R861	1-249-441-11	CARBON	100K	5%	1/4W						•
R901	1-249-441-11	CARBON	100K	5%	1/4W			< FLUORESCENT	INDICATOR	R TUBE >	•
R905	1-247-838-00		2K	5%	1/4W	1					
11300	, 2 11 000 00	J. 11 (D D 11		- / -		VFD901	1-517-163-11	INDICATOR TUBE	, FLUORES	CENT	
Dove	1-249-422-11	CARRON	2.7K	5%	1/4W			******			*****
R906					1/4W						
R907	1-247-848-11		5.1K	5%							
R908	1-249-429-11		10K	5%	1/4W	1		•			
R909	1-247-866-11	CARBON	30K	5%	1/4W						
R910	1-247-838-00	CARBON	2K	5%	1/4 <b>W</b>	1		•			

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### **REEL MOTOR**

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Remark
*	1-632-741-21	REEL MOTOR BOA	ARD					*****		
		*****						HARDWARE LIST		
								*****		
		< CAPACITOR >								
						#1		SCREW +BVTT 3X8		
C1051	1-124-907-11		10uF	20%	50V	#2		SCREW +BVTT 3X6	` '	
C1052	1-124-907-11		10uF	20%	50V	#3		SCREW +BVTP 3X8		
C1053	1-164-159-11	CERAMIC	0.1uF		50V	#4		SCREW (+ PTPWH) SCREW +BTP 2.6X6		
		< CONNECTOR >				#5	7-000-000-19	SUREW +DIP 2.0X0	)	
		< CONNECTOR >				#6	7-621-255-20	SCREW +BVTT 2X4	<b>(S)</b>	
* CN1051	1-568-945-11	PIN, CONNECTOR	7D			#7		SCREW +B 2X5	(0)	
		PIN, CONNECTOR		VPF) 2P		#8		SCREW +BTP 2.6X4	TYPE2 N-S	
	1-564-718-11					#9		SCREW +BVTT 2X5		
0.17.000		,,	(	,				******	` '	******
		< DIODE >								
								ACCESSORIES & PA	ACKING MATERIA	LS
D1001	8-719-980-85	DIODE SLF-3250	(ON THE F	RONT PAI	VEL)			******	******	**
		< RESISTOR >						CORD, CONNECTIO		
							3-856-296-11	MANUAL, INSTRUC		
R1051	1-247-825-31		560	5%	1/4W *****		0.050.000.01		H, PORTUGUESE	)(CND, AEP)
******	*****	******	******	****	****		3-856-296-21	MANUAL, INSTRUC		C UV AUC)
		MISCELLANEOUS					2-956-206-21	MANUAL, INSTRUC		IS, UK, AUS)
•		***********					3-030-290-31	WANDAL, INSTITUT	SWEDISH, ITA	
							3-856-296-41	MANUAL, INSTRUC		
<b>∆</b> 10	1-569-007-11	ADAPTER, CONVE	RSION 2P	(E)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(,	,
63		WIRE (FLAT TYPE		` '			3-856-296-51	MANUAL, INSTRUC	TION (ENGLISH,	FRENCH,
64		WIRE (FLAT TYPE		)					SPANISH, CHIN	IESE)(E, SP)
<b>▲CNP901</b>		CORD, POWER (E				*		CUSHION (AEP, UK,		
<b>▲ CNP901</b>	1-558-945-21	CORD, POWER (P	OLAR.SPT-	·1)(US, CN	D) .	*		INDIVIDUAL CARTO		P)
						*		INDIVIDUAL CARTO		
		CORD, POWER (A				*	3-935-041-01	INDIVIDUAL CARTO	IN (E, AUS)	
		CORD, POWER (U				*	0.000.000.01	CHELLION (HE OND		
		CORD, POWER (A	.08)			_ T	3-930-080-01	CUSHION (US, CND	')	
		DIODE SLF-325C HEAD, MAGNETIC	(EDACE)							
HE301	1-043-073-11	HEAD, MAGNETIC	(ENASE)							
HDD201	1_5/2_732_11	HEAD, MAGNETIC	/RECORD/I	DI AVRACK	Δ.					
		MOTOR (CAPSTAI			• 7	l.				
M1051	X-3371-429-1	MOTOR (REEL RN	A) ASSY							
M1052	X-3371-428-1	MOTOR (ASSIST)	ASSY							
S1001		ENCODER, ROTAF								
		•								
<b> ∆</b> S701	1-692-155-11	SELECTOR, POWE	R VOLTAG	E (E)						
<b>▲T701</b>		TRANSFORMER,	•							
<b>▲T701</b>		TRANSFORMER, F			SP)					
<b>△</b> T701		TRANSFORMER, F								
<b></b> ∆T701	1-429-656-11	TRANSFORMER, I			ale ale ale ale ale ale ale					
******	******	******	******	*****	*****					

### TC-KA2ES/KE600S